

Cultural Normativity Index: Study 2

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1 Data set up

The data, originally in the .sav format, is identified by labels for each set of items. Scale scores for individual and community (here, country) level are computed for each measure.

```
options(timeout = max(300, getOption("timeout")))
#if (!require("pacman")) install.packages("pacman")
#pacman::p_install() #for installing libraries

pacman::p_load(tidyverse, dplyr, rio, expss, scales, glue,
               rlang, kableExtra, stringr, tibble, psych, here, tools,
               haven, parallel, tictoc, papaja, #wrangling and setup
               patchwork, gridExtra, ggplot2, grid, ggtext, ggcorrplot, #plots
               lme4, lmerTest, broom.mixed, tidyr, #modeling - mlm
               emmeans, marginaleffects, modelsummary,
               pbkrtest, car #model estimates
               )

options(modelsummary_get = "easystats")

#---Data import
all_data2 <- import(here::here("data", "SWV2012.sav"), setclass = "tibble")

#get all factor levels
all_data2_factor_cols <- read_sav(here::here("data", "SWV2012.sav")) %>%
  mutate(across(c("Nation33", "Language", "D_SX", "D_FH", "D_ME", "D_FE"), haven::as_factor)) %>%
  select("Nation33", "Language", "D_SX", "D_FH", "D_ME", "D_FE") %>%
  tibble()

#attr(all_data2_spss$Nation33, "labels")

#---Globe items rename
```

```

#Study1 pattern of Globe names, only pattern is similar the names here don't exactly map on the same
s1_GlobeNames <- c("g1igc1", "g1un1", "g1pf1", "g1ic1", "g1igc2", "g1un2", "g1igc3", "g1ge1", "g1po1")

#Study2 Globe names, these are replaced with the names above to replicate the coding style from Study1
s2_GlobeNames <- paste0("NO", 1:43)

#tibble(s2_GlobeNames, s1_GlobeNames) %>% View()

all_data2 <- all_data2%>%
  rename(!!!setNames(s2_GlobeNames, s1_GlobeNames))

#---Classify items for domains and compute scale scores for each domain

#This ensures that the items are correctly classified within their respective domains
all_vars_d <- tibble(all_vars = names(all_data2)) %>%
  mutate(
    domain = case_when(
      str_starts(all_vars, "ISM") ~ "Isms",
      str_detect(all_vars, "^P\\d{1,2}") ~ "Personality6",
      str_starts(all_vars, "TL") ~ "Tight_Lose",
      str_starts(all_vars, "MT") ~ "Material",
      str_starts(all_vars, "AM") ~ "Amoralism",
      str_starts(all_vars, "IV") ~ "Fanaticism",
      str_detect(all_vars, "^VAL\\d{1,2}$") ~ "Values", #Schwartz
      str_detect(all_vars, "^M\\d{1,2}$") ~ "Machiavellianism",
      str_detect(all_vars, "^EN") ~ "Ethnonational",
      str_starts(all_vars, "IC") ~ "Indv_Collectivism",
      str_detect(all_vars, "^MF\\d{2}$") ~ "Moral_Foundations",
      str_starts(all_vars, "FV") ~ "Family_Values",
      str_detect(all_vars, "^PA\\d{1,2}$") ~ "Prone_Aggr",
      str_starts(all_vars, "g1|g2|g3") ~ "Globe",
      str_detect(all_vars, "^NO(?:4[4-9])$") ~ "Globe_extra",
      str_starts(all_vars, "Ax") ~ "Social_Axioms",
      #Duke Religiosity Index
      str_detect(all_vars, "^DRI\\d{2}$") ~ "DRI",
      TRUE ~ all_vars
    )
  )

#get all item numbers for each domain
item_names <- \(domain_name){
  all_item_names <- all_vars_d %>%
    filter(domain == {{domain_name}}) %>%
    pull(all_vars)
  return(all_item_names)
}

compute_trait_score <- function(data, pos_items, rev_items = NULL) {
  if (is.null(rev_items)) {
    # If no reverse items are specified, just sum the positive items

```

```

    return(rowSums(data %>% select(all_of(pos_items)), na.rm = TRUE))
  } else {
    # If both positive and reverse items are specified
    rowSums(
      data %>%
        select(all_of(c(pos_items, rev_items))) %>%
        #here the items are assumed to be on the scale of 1 to 5;
        #this function is only applied after ensuring that all items are
        #are measured on or a rescaled to 1to5
        mutate(across(all_of(rev_items), ~ 6 - .x)),
      na.rm = TRUE
    )
  }
}

# convert any input into a character string
convert_to_char <- \(...) {
  expr <- enquos(...)
  char_vector <- map_chr(expr, quo_name)
  return(char_vector)
}

#---Compute scale scores
data2 <- bind_cols(
  all_data2_factor_cols,
  all_data2 %>%
    select(D_AGE,
      list_c(map(c("Isms","Globe","Globe_extra", "Tight_Lose", "Material","Social_Axioms", "Amoralism
) %>%
    rename("country" = "Nation33",
      "language_admin" = "Language",
      "sex" = "D_SX",
      "family_home" = "D_FH",
      "mother_edu" = "D_ME",
      "father_edu" = "D_FE",
      "age" = "D_AGE") %>%
#Retain countries with n >100
group_by(country) %>%
filter(n() >= 100) %>%
ungroup() %>%
  # Drop rows with more than 10% missing data
#filter(rowSums(is.na(.)) / ncol(.) <= 0.1)
#Rescale
mutate(across(c(
  all_of(item_names("Values")),
  all_of(item_names("Isms")),
  all_of(item_names("Fanaticism")),
  all_of(item_names("Machiavellianism")),
  all_of(item_names("Moral_Foundations")),
  all_of(item_names("Globe")),
  all_of(item_names("Globe_extra")),
  all_of(item_names("Prone_Aggr")),

```

```

    all_of(item_names("Tight_Lose"))),
    # rescale all items from 1 to 5 for easy comparison
    ~scales::rescale(., to = c(1, 5))) %>%

#-----[CNI ~ Continuous moderators] -----#
# scP; scM = scaled Personality; Mindset scores
mutate(
#compute_trait_score(data, pos_items, rev_items)
  #Personality: pty6
scP_Consc.indv = compute_trait_score(.,
  paste0("P", c(1,13,25)),
  paste0("P", c(7,19,31))),
scP_Hon.indv = compute_trait_score(.,
  paste0("P", c(11,17,29)),
  paste0("P", c(5,23,35))),
scP_Agree.indv = compute_trait_score(.,
  paste0("P", c(8,32)),
  paste0("P", c(2,14,20,26))),
scP_Res.indv = compute_trait_score(.,
  paste0("P", c(12,36)),
  paste0("P", c(6,18,24,30))),
scP_Extra.indv = compute_trait_score(.,
  paste0("P", c(3,15,27)),
  paste0("P", c(9,21,33))),
scP_Vir.indv = compute_trait_score(.,
  paste0("P", c(10,16,22,34)),
  paste0("P", c(4,28))),

  #Personality: pty2 - scoring here is based on GS' method
  #Social self-regulation
scP_Big2_SocialSelfReg.indv = (compute_trait_score(.,
  paste0("P", c(1,8,17,25,38)),
  paste0("P", c(5,7,14,19,23)))/10,
#Dynamism
scP_Big2_Dynamism.indv = (compute_trait_score(.,
  paste0("P", c(10,15,34,36,37,39)),
  paste0("P", c(9,28,30,40)))/10,

  #Moral Foundations
scM_MFQ_Harm.indv = compute_trait_score(.,
  c("MF01","MF07","MF12","MF18")),
scM_MFQ_Fairness.indv = compute_trait_score(.,
  c("MF02","MF08","MF13","MF19")),
scM_MFQ_Loyalty.indv = compute_trait_score(.,
  c("MF03","MF09","MF14","MF20")),
scM_MFQ_Authority.indv = compute_trait_score(.,
  c("MF04","MF10","MF15","MF21")),
scM_MFQ_Purity.indv = compute_trait_score(.,
  c("MF05","MF11","MF16","MF22")),

  #Mindset: Social Axioms
# Social Cynicism

```

```

scM_SocAx_Cynicism.indv = compute_trait_score(.,
  c("Ax5", "Ax12", "Ax16", "Ax23")),
  # Reward for Application
scM_SocAx_RewardForApp.indv = compute_trait_score(.,
  c("Ax4", "Ax9", "Ax13", "Ax21", "Ax28")),
  # Social Complexity
scM_SocAx_Complexity.indv = compute_trait_score(.,
  c("Ax6", "Ax8", "Ax10", "Ax15", "Ax19", "Ax22", "Ax25",
  "Ax27", "Ax30")),
  # Fate Control
scM_SocAx_FateControl.indv = compute_trait_score(.,
  c("Ax1", "Ax7", "Ax11", "Ax14", "Ax24")),
  # Religiosity (importance of religion)
scM_SocAx_Religiosity.indv = compute_trait_score(.,
  c("Ax2", "Ax3", "Ax17", "Ax18", "Ax20", "Ax26", "Ax29"
)),

  #Mindset: Individualism Collectivism
scM_IndvColl_CollecHori.indv = compute_trait_score(.,
  c("IC14", "IC16", "IC4", "IC6")),
scM_IndvColl_CollecVert.indv = compute_trait_score(.,
  c("IC10", "IC13", "IC2", "IC7")),
scM_IndvColl_IndivHori.indv = compute_trait_score(.,
  c("IC1", "IC11", "IC5", "IC8")),
scM_IndvColl_IndivVert.indv = compute_trait_score(.,
  c("IC12", "IC15", "IC3", "IC9")),

  #Mindset: Family Values
scM_FamValCohesion.indv = compute_trait_score(., c("FV02", "FV04", "FV06", "FV08")),
scM_FamValHierarchy.indv = compute_trait_score(., c("FV01", "FV03", "FV05", "FV07" )),

  #Mindset: Schwartz Values
  #Self-Transcendence: Universalism + Benevolence
scM_Value_SfTran.indv = compute_trait_score(.,c("VAL5", "VAL8")),

  #Conservation: Conformity + Tradition + Security
scM_Value_Constrv.indv = compute_trait_score(.,c("VAL4", "VAL1", "VAL7")),

  #Self-enhancement: Achievement + Power
scM_Value_SelfEnh.indv = compute_trait_score(.,c("VAL3", "VAL10")),

  #Openness to Change: Stimulation + Self-direction
scM_Value_OpnChg.indv = compute_trait_score(.,c("VAL9", "VAL2")),

  #Fanaticism
  scM_fntc.indv = compute_trait_score(.,
    item_names("Fanaticism")[-c(4,6,17)],
    item_names("Fanaticism")[c(4,6,17)]),

#dput(convert_to_char())

  #Mindset: Isms
  #Traditional Religiousness

```

```

scM_Isms_TradRelig.indv = compute_trait_score(.,c("ISM12", "ISM17", "ISM22", "ISM35"), c("ISM14", "ISM15", "ISM16", "ISM18", "ISM19", "ISM20", "ISM21", "ISM23", "ISM24", "ISM25", "ISM26", "ISM27", "ISM28", "ISM29", "ISM30", "ISM31", "ISM32", "ISM33", "ISM34", "ISM36", "ISM37", "ISM38", "ISM39", "ISM40", "ISM41", "ISM42", "ISM43", "ISM44", "ISM45", "ISM46", "ISM47", "ISM48", "ISM49", "ISM50"),
# Unmitigated Self-Interest
scM_Isms_UnmiSelfInt.indv = compute_trait_score(.,c("ISM11", "ISM3", "ISM32", "ISM4", "ISM41", "ISM42", "ISM43", "ISM44", "ISM45", "ISM46", "ISM47", "ISM48", "ISM49", "ISM50"),
# Communal Rationalism
scM_Isms_CommRation.indv = compute_trait_score(.,c("ISM13", "ISM15", "ISM18", "ISM24", "ISM38", "ISM40", "ISM41", "ISM42", "ISM43", "ISM44", "ISM45", "ISM46", "ISM47", "ISM48", "ISM49", "ISM50"),
# Subjective Spirituality
scM_Isms_SubjSpirit.indv = compute_trait_score(.,c("ISM10", "ISM39", "ISM5", "ISM6"), c("ISM2", "ISM3", "ISM4", "ISM5", "ISM6", "ISM7", "ISM8", "ISM9", "ISM10", "ISM11", "ISM12", "ISM13", "ISM14", "ISM15", "ISM16", "ISM17", "ISM18", "ISM19", "ISM20", "ISM21", "ISM22", "ISM23", "ISM24", "ISM25", "ISM26", "ISM27", "ISM28", "ISM29", "ISM30", "ISM31", "ISM32", "ISM33", "ISM34", "ISM35", "ISM36", "ISM37", "ISM38", "ISM39", "ISM40", "ISM41", "ISM42", "ISM43", "ISM44", "ISM45", "ISM46", "ISM47", "ISM48", "ISM49", "ISM50"),
# Inequality Aversion
scM_Isms_IneqAver.indv = compute_trait_score(.,c("ISM19", "ISM31", "ISM33", "ISM34", "ISM45"), c("ISM1", "ISM2", "ISM3", "ISM4", "ISM5", "ISM6", "ISM7", "ISM8", "ISM9", "ISM10", "ISM11", "ISM12", "ISM13", "ISM14", "ISM15", "ISM16", "ISM17", "ISM18", "ISM19", "ISM20", "ISM21", "ISM22", "ISM23", "ISM24", "ISM25", "ISM26", "ISM27", "ISM28", "ISM29", "ISM30", "ISM31", "ISM32", "ISM33", "ISM34", "ISM35", "ISM36", "ISM37", "ISM38", "ISM39", "ISM40", "ISM41", "ISM42", "ISM43", "ISM44", "ISM45", "ISM46", "ISM47", "ISM48", "ISM49", "ISM50"),

#Mindset: Materialism
scM_Material.indv = compute_trait_score(.,
item_names("Material")),

#Mindset: Machiavellianism
scM_Machiaveln.indv = compute_trait_score(., paste0("M", c(1,2,4)), paste0("M", c(3,5))),

#Mindset: Proneness to Aggression - Honor
scM_Prone_Aggr.indv = compute_trait_score(.,item_names("Prone_Aggr")),

#Mindset: Ethnonationalism
scM_Ethnonational.indv = compute_trait_score(., paste0("EN", c(1,3,4,6)), paste0("EN", c(2,5))),

#Mindset: Cultural Tightness
scM_Tightness.indv = compute_trait_score(., paste0("TL0", c(1,2,3,5,6)), "TL04"),

#Mindset: Amoralism
scM_Amoralism.indv = compute_trait_score(., item_names("Amoralism")[-c(1,4,6,8,10,11,13)],
item_names("Amoralism")[c(1,4,6,8,10,11,13)]),

#Mindset: Duke Religion Index (DRI)
# Organizational activity
scM_DRI_OrgRelgAc.indv = compute_trait_score(., "DRI01"),
# Non-organizational activity
scM_DRI_NonOrgRelgAc.indv = compute_trait_score(., "DRI02"),
# Intrinsic religiosity
scM_DRI_IntrnscRelg.indv = compute_trait_score(., paste0("DRI0", c(3,4,5))),
# Civic Multicultural Nationalism
scM_CivicMCNational.indv = compute_trait_score(., c("EN2", "EN5")),

#Mindset: GLOBE
#InGroup Collectivism
scM_globe_igc.indv = compute_trait_score(.,
str_subset(item_names("Globe"), "^g.*igc.*$")),
# Institutional Collectivism
scM_globe_ic.indv = compute_trait_score(.,
str_subset(item_names("Globe"), "^g.*ic.*$")[-c(3,4)],
str_subset(item_names("Globe"), "^g.*ic.*$")[c(3,4)]),
# Performance Orientation/Achievement
scM_globe_pf.indv = compute_trait_score(.,
str_subset(item_names("Globe"), "^g.*pf.*$")[-4],
str_subset(item_names("Globe"), "^g.*pf.*$")[4]),
# Uncertainty Avoidance

```

```

scM_globe_un.indv = compute_trait_score(.,
  str_subset(item_names("Globe"), "^g.*un.*$")[-5],
  str_subset(item_names("Globe"), "^g.*un.*$")[5]),
  # Gender Egalitarian
scM_globe_ge.indv = compute_trait_score(.,
  str_subset(item_names("Globe"), "^g.*ge.*$")[-c(1,2,4)],
  str_subset(item_names("Globe"), "^g.*ge.*$")[c(1,2,4)]),
  # Power Distance
scM_globe_po.indv = compute_trait_score(.,
  str_subset(item_names("Globe"), "^g.*po.*$")[-c(5,6)],
  str_subset(item_names("Globe"), "^g.*po.*$")[c(5,6)]),
  # Future Orientation
scM_globe_fu.indv = compute_trait_score(.,
  str_subset(item_names("Globe"), "^g.*fu.*$")[-c(3,4)],
  str_subset(item_names("Globe"), "^g.*fu.*$")[c(3,4)]),
  # Assertiveness
scM_globe_ass.indv = compute_trait_score(.,
  str_subset(item_names("Globe"), "^g.*ass.*$")[-c(2,3)],
  str_subset(item_names("Globe"), "^g.*ass.*$")[c(2,3)]),
  # Humane Orientation
scM_globe_hu.indv = compute_trait_score(.,
  str_subset(item_names("Globe"), "^g.*hu.*$")) %>%
mutate(pID = paste0("p", 1:nrow(.)), .before = everything())%>%

#compute community[here, country] scale scores
with_groups(country,
  mutate,
  across(
    # Select all pty and cog scaled scores
    contains(c("scP", "scM")),
    # Compute mean by country
    ~mean(., na.rm = TRUE),
    # Create new name [scP_Hon.indv -> scP_Hon.comm]
    .names = "{str_remove(.col, '[.].*')}comm"
  )
) %>%

#-----[CNI ~ Categorical moderators]-----#

#Demographic variables
mutate(
  mother_edu = case_when(
    str_detect(mother_edu, "don't know") ~ NA_character_,
    TRUE ~ as.character(mother_edu)
  ),
  father_edu = case_when(
    str_detect(father_edu, "don't know") ~ NA_character_,
    TRUE ~ as.character(father_edu)
  ),
  age_group = case_when(
    age >= 13 & age <= 17 ~ "13-17",
    age >= 18 & age <= 25 ~ "18-25",
    age >= 26 & age <= 35 ~ "26-35",

```

Table 1: Sample statistics by Country

Country	Mean Age	% Male	n
Morocco	25.61600	49.86737	441
Japan	20.86402	36.76880	429
Philippines	19.98837	32.28571	425
USA	21.94428	42.85714	425
Turkey	21.12027	45.70447	416
Taiwan	22.55882	35.52632	395
India	21.06707	37.57576	390
Ethiopia	24.03460	70.70707	381
Spain	22.72840	36.27760	379
Thailand	21.60662	28.30882	350
China	20.79352	27.01613	350
Germany	23.61261	48.36795	349
Nepal	21.01917	40.82278	346
Malaysia	20.51172	34.24125	324
Peru	21.82684	39.31624	309
Singapore	21.66038	44.98141	304
Kenya	24.60311	66.66667	288
Bangladesh	21.71713	78.07692	272
Tanzania	24.81702	67.51055	256
Greece	21.78049	29.80769	246
Ukraine	20.20853	36.49289	244
Argentina	24.29032	44.02174	243
England	22.74336	38.05310	229
Poland	21.17160	11.83432	225
Canada	21.76163	38.63636	220
Brazil	22.19079	21.05263	195
Mexico	26.57480	34.92063	157

```

age >= 36 & age <= 45 ~ "36-45",
age >= 46 ~ "46+",
TRUE ~ NA_character_
))%>%
relocate(age_group, .before = age)

```

Table 2: Sample Demographics

Variable	n (%)
Sex	
male	3012 (35.07%)
female	4096 (47.69%)
missing	1480 (17.23%)
Age	
18-25	6267 (72.97%)
26-35	566 (6.59%)
36-45	109 (1.27%)

(continued)

Variable	n (%)
46+	117 (1.36%)
missing	1529 (17.80%)
Family Home	
large city	2421 (28.19%)
medium-sized city	2268 (26.41%)
small town or village	1631 (18.99%)
rural area	810 (9.43%)
missing	1458 (16.98%)
Mother's Education	
associate's or 2-year college degree	478 (5.57%)
bachelor's or 4-year college degree	1183 (13.78%)
business or trade school	763 (8.88%)
grade school or less	1040 (12.11%)
graduate or professional degree	531 (6.18%)
high school diploma	1194 (13.90%)
some college	663 (7.72%)
some graduate school or obtained professional degree	312 (3.63%)
some high school	823 (9.58%)
missing	1601 (18.64%)
Father's Education	
associate's or 2-year college degree	359 (4.18%)
bachelor's or 4-year college degree	1423 (16.57%)
business or trade school	776 (9.04%)
grade school or less	738 (8.59%)
graduate or professional degree	804 (9.36%)
high school diploma	989 (11.52%)
some college	684 (7.96%)
some graduate school or obtained professional degree	425 (4.95%)
some high school	728 (8.48%)
missing	1662 (19.35%)
Language of Administration	
English	1856 (21.61%)
Spanish (but a distinct version in Spain)	1088 (12.67%)
Chinese (simplified characters in China, traditional in Taiwan)	745 (8.67%)
Arabic	441 (5.14%)
Kiswahili	256 (2.98%)
Amharic	381 (4.44%)
Nepali	346 (4.03%)
Bengali	272 (3.17%)
Malay	324 (3.77%)
Filipino/Tagalog	425 (4.95%)
Thai	350 (4.08%)
Japanese	429 (5.00%)
Turkish	416 (4.84%)
Greek	246 (2.86%)
Ukrainian	244 (2.84%)
Polish	225 (2.62%)
Portuguese (Brazilian)	195 (2.27%)
German	349 (4.06%)

2 Analysis

2.1 RQ 1: How to quantify CNI?

Similar to Study 1, CNI is estimated using a Random slope Multilevel model (varying slopes and fixed intercepts) wherein items nested within person [pID] (Weston,2024). This model accounts for the nested nature of our data, where individual items are clustered within each participant. As responses are ipsatized (standardized within participant), the resulting slope estimates can be interpreted as correlation estimates.

For study 2, eight CNI models are computed:

CNI Models

1. Mindset CNI: consisting of all mindset items
2. Isms CNI
3. Globe CNI: Original Globe items by House et al.
4. GlobeEx CNI: House et al. + extra items
5. Moral Foundations CNI
6. Fanaticism CNI
7. Social Axioms CNI
8. Personality 6 CNI: consisting of Big 6 items

The Mindset-CNI and Personality6-CNI encompass distinct domains of psychological measurement, while the remaining CNI types can be viewed as subcomponents or specialized facets within the broader Mindset-CNI framework. Mindset-CNI therefore is the most comprehensive of all the CNI types explored here.

```
# functions for computing CNIs

#item names for every CNI type
get_item_names <- \(CNI_type, data) {
  domains <- switch(CNI_type,
    "Mindset" = c("Isms", "Fanaticism", "Social_Axioms", "Values", "Tight_Lose", "Material",
                  "Amoralism", "Ethnonational", "Indv_Collectivism", "Globe", "Globe_extra",
                  "Moral_Foundations", "Family_Values", "Machiavellianism", "Prone_Aggr"),
    "pty6" = c("Personality6"),
    "Fanaticism" = c("Fanaticism"),
    "Isms" = c("Isms"),
    "Globe" = c("Globe"),
    "Globe_extra" = c("Globe", "Globe_extra"),
    "Moral_foundations" = c("Moral_Foundations"),
    "Social_Axioms" = c("Social_Axioms"),

    stop("CNI type not found")
  )

  item_names <- data %>%
    filter(domain %in% domains) %>%
    pull(all_vars)

  if (length(item_names) == 0) {
    warning("No items found for the specified domains")
  }

  return(item_names)
}
```

```

}

#ipsatize/within person standardize scores
#scores are ipsatized before CNI's are computed
ipsatize <- \(x){
  value <- (x-mean(x, na.rm=T))/(sd(x, na.rm=T))
  return(value)
}

#compute z_profiles for pID
compute_profiles <- \(var_names){
#compute mean country profiles
country_profiles <- data2 %>%
  group_by(country) %>%
  summarise(
    across(all_of(var_names), ~mean(.x, na.rm = TRUE), .names = "avg_{.col}"),#variables for cogCNI
    n_p = n())%>% # number of participants)
  ungroup() %>%
#retain participants who have responded to at least 30 items.- all countries have n_p>30
  filter(n_p>=30) %>%
  pivot_longer(
    cols = starts_with("avg_"),
    #item names stored in item
    names_to = "item",
    values_to = "ctry_response"
  ) %>%
  mutate(item = str_remove(item, "avg_")) %>%
  ungroup()

self.ctry_profiles <- data2 %>%
  select(all_of(var_names), pID, country) %>%
  pivot_longer(names_to = "item",
    values_to = "response",
    cols = all_of(var_names)) %>%
  filter(!is.na(response)) %>%
  left_join(country_profiles, by = c("country", "item")) %>%
  filter(!is.na(ctry_response)) %>%
# ipsatize responses within profile
  with_groups(pID, mutate, across(
    # mutate self-rating and mean country profiles for each pID at once
    contains("response"),
    # with the ipsatize function ,
    ipsatize,
    # create new name
    .names = "z_{.col}"))

overallM_profiles <- self.ctry_profiles %>%
  select(item, z_response) %>%
  filter(!is.na(z_response)) %>%
  group_by(item) %>%
  summarise(overall.M = mean(z_response)) %>%
  ungroup()

```

```

return(lst(self.ctr_profiles, overallM_profiles)) #set_names() to the input object names
}

#get all item names for CNI types
mindsetCNI_items <- get_item_names("Mindset", all_vars_d)
pty6CNI_items <- get_item_names("pty6", all_vars_d)
ismCNI_items <- get_item_names("Isms", all_vars_d)
fantcCNI_items <- get_item_names("Fanaticism", all_vars_d)
globeCNI_items <- get_item_names("Globe", all_vars_d)
globeExCNI_items <- get_item_names("Globe_extra", all_vars_d)
mfCNI_items <- get_item_names("Moral_foundations", all_vars_d)
socAxCNI_items <- get_item_names("Social_Axioms", all_vars_d)

#compute profiles for each CNI type
mindsetCNI_profiles <- compute_profiles(mindsetCNI_items)
pty6CNI_profiles <- compute_profiles(pty6CNI_items)
ismCNI_profiles <- compute_profiles(ismCNI_items)
fantcCNI_profiles <- compute_profiles(fantcCNI_items)
globeCNI_profiles <- compute_profiles(globeCNI_items)
globeExCNI_profiles <- compute_profiles(globeExCNI_items)
mfCNI_profiles <- compute_profiles(mfCNI_items)
socAxCNI_profiles <- compute_profiles(socAxCNI_items)

all_profiles <- lst(
  mindsetCNI_profiles,
  pty6CNI_profiles,
  ismCNI_profiles,
  fantcCNI_profiles,
  globeCNI_profiles,
  globeExCNI_profiles,
  mfCNI_profiles,
  socAxCNI_profiles
)

#formula for computing CNI
add_CNIformula <- \(data){
  lmer(z_response ~ z_ctype_response + overall.M + (-1 + z_ctype_response|country/pID), data = data)
}

mindsetCNI_mod <- mindsetCNI_profiles$self.ctr_profiles %>%
  full_join(cogCNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

pty6CNI_mod <- pty6CNI_profiles$self.ctr_profiles %>%
  full_join(pty6CNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

ismCNI_mod <- ismCNI_profiles$self.ctr_profiles %>%
  full_join(ismCNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

fantcCNI_mod <- fantcCNI_profiles$self.ctr_profiles %>%
  full_join(fantcCNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

```

```

globeCNI_mod <- globeCNI_profiles$self.ctr_profiles %>%
  full_join(globeCNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

globeExCNI_mod <- globeExCNI_profiles$self.ctr_profiles %>%
  full_join(globeExCNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

mfCNI_mod <- mfCNI_profiles$self.ctr_profiles %>%
  full_join(mfCNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

socAxCNI_mod <- socAxCNI_profiles$self.ctr_profiles %>%
  full_join(socAxCNI_profiles$overallM_profiles, by = "item") %>% add_CNIformula(.)

```

2.1.1 Model Complexity

The Eight models vary in the number of items and domains of psychological measures. 1. The Parallel Analysis computed here, identify the optimum number of dimensions that the data for every CNI type can be reduced to. The optimum number of dimensions are retained based on the comparison of eigenvalues of the actual data and those of randomly generated data sets. Dimensions are retained when their eigenvalues exceed those of the random data, ensuring that only factors accounting for more variance than would be expected by chance are retained. 2. Principal Components that explain at least 50% of variance are identified.

```

# Function to calculate heterogeneity
compute_heterogeneity <- function(data) {
  # Compute correlation matrix once - memory efficient
  cor_matrix <- cor(data, use = "pairwise.complete.obs")

  pca_rotation <- function(rotation) {
    # Perform PCA using correlation matrix
    pca <- principal(cor_matrix, nfactors = ncol(data), rotate = rotation, covar = FALSE)

    # Calculate cumulative variance explained
    cumulative_var <- cumsum(pca$values) / sum(pca$values)

    # Find number of factors needed to explain at least 50% variance
    heterogeneity <- which(cumulative_var >= 0.5)[1]

    return(heterogeneity)
  }

  # Perform parallel analysis using correlation matrix
  pa_result <- fa.parallel(cor_matrix, n.obs = nrow(data), fa = "fa",
    fm = "minres", show.legend = FALSE, plot = FALSE)

  tibble(
    n_items = ncol(data),
    pa = pa_result$nfact,
    pca_50 = pca_rotation("none")
  )
}

```

Table 3: CNI Model complexity

CNI type	No. items	Parallel analysis	PCA
Mindset			
Mindset	236	38	39
Globe	43	11	10
GlobeEx	49	12	11
Isms	46	11	11
Fanaticism	17	5	4
Moral foundations	22	6	5
Social Axioms	30	8	8
Personality			
Personality6	40	9	10

```

heterogeneity_stats <- map_dfr(
  list(
    Mindset = select(data2,
      get_item_names("Mindset",
        all_vars_d)),
    Globe = select(data2,
      get_item_names("Globe",
        all_vars_d)),
    GlobeEx = select(data2,
      get_item_names(c("Globe_extra"),
        all_vars_d)),
    Isms = select(data2,
      get_item_names("Isms",
        all_vars_d)),
    Fanaticism = select(data2,
      get_item_names("Fanaticism",
        all_vars_d)),
    Moral_foundations = select(data2,
      get_item_names("Moral_foundations",
        all_vars_d)),
    Social_Axioms = select(data2,
      get_item_names("Social_Axioms",
        all_vars_d)),
    Personality6 = select(data2,
      get_item_names("pty6",
        all_vars_d))
  ),
  compute_heterogeneity, .id = "cni_type"
)

```

Heterogeneity figure indicates that as the item count increases, so does the number of identifiable dimensions, indicating higher model complexity. The Fanaticism CNI, despite having only 17 items, has been included here to maintain consistency with Study 1 and provide a basis for comparison. Notably, the Mindset CNI exhibits a markedly higher complexity, with nearly four times as many dimensions as the other CNI models.

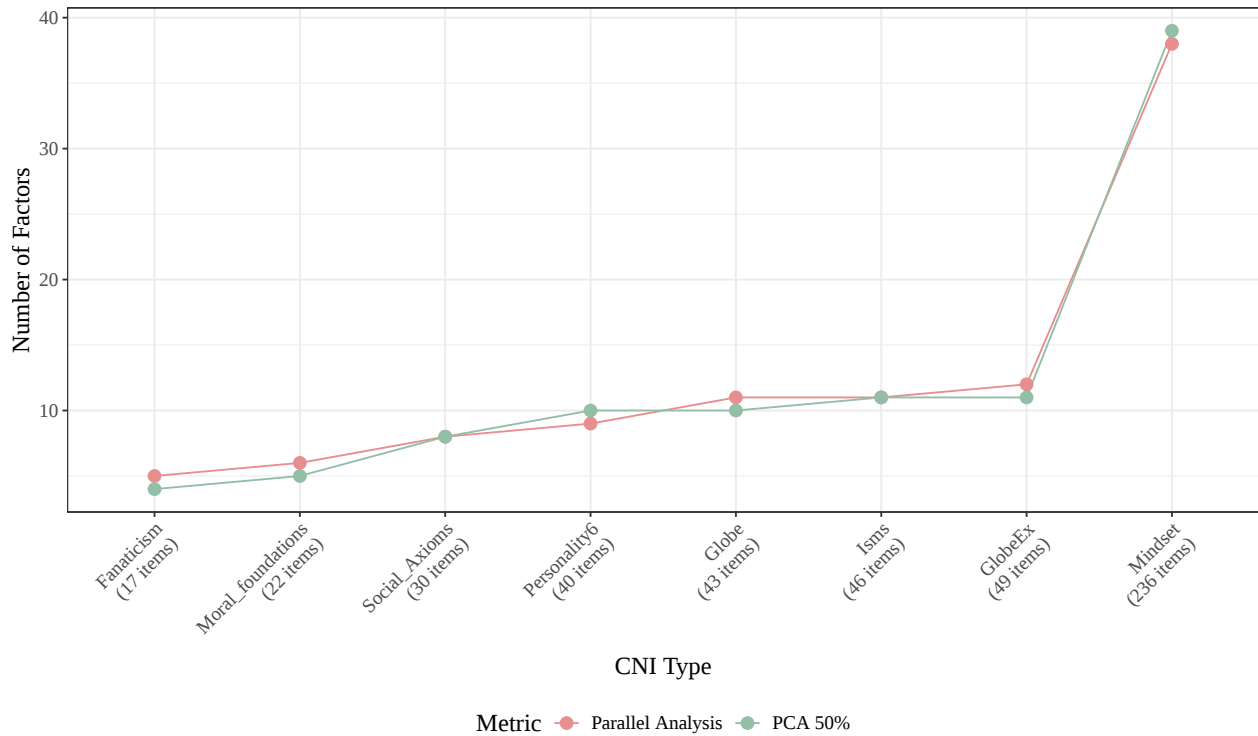


Figure 1: Model Complexity Measures Across CNI Types

2.1.2 CNI distributions

```
#mindsetCNI_mod, pty6CNI_mod, ismCNI_mod, fantcCNI_mod, globeCNI_mod, globeExCNI_mod, mfCNI_mod, socA

mindsetCNI_plot <- plot_CNI(mindsetCNI_mod)
ismCNI_plot <- plot_CNI(ismCNI_mod)
globeCNI_plot <- plot_CNI(globeCNI_mod)
globeExCNI_plot <- plot_CNI(globeExCNI_mod)
fantcCNI_plot <- plot_CNI(fantcCNI_mod)
mfCNI_plot <- plot_CNI(mfCNI_mod)
socAxCNI_plot <- plot_CNI(socAxCNI_mod)
pty6CNI_plot <- plot_CNI(pty6CNI_mod)

patch_CNIplots <- \(plot_list){

  p1 <- plot_list$coefficient_plot &
  theme(plot.title = element_blank(),
        text = element_text(family = "serif", size = 12))

  p2 <- plot_list$hist_plot &
  theme(plot.title = element_blank(),
        text = element_text(family = "serif", size = 12))

  combined_plot <- p1 + p2

  return(combined_plot)
}
```

```

}

# Create a list of plot objects and their corresponding titles
CNIplot_data <- lst(
  list(plot = mindsetCNI_plot, title = "Mindset CNI"),
  list(plot = ismCNI_plot, title = "Isms-Mindset CNI"),
  list(plot = globeCNI_plot, title = "Globe-Mindset CNI"),
  list(plot = globeExCNI_plot, title = "Globe (Extra items)-Mindset CNI"),
  list(plot = fantcCNI_plot, title = "Fanaticism-Mindset CNI"),
  list(plot = mfCNI_plot, title = "Moral Foundations-Mindset CNI"),
  list(plot = socAxCNI_plot, title = "Social Axioms-Mindset CNI"),
  list(plot = pty6CNI_plot, title = "Personality6 CNI")
)

CNIplot_data <- lst(
  mindsetCNI_plot, ismCNI_plot, globeCNI_plot, globeExCNI_plot,
  fantcCNI_plot, mfCNI_plot, socAxCNI_plot, pty6CNI_plot)

CNIplot_data_details <- tibble(
  mod_names = names(CNIplot_data),
  caption = c("Mindset CNI", "Isms-Mindset CNI", "Globe-Mindset CNI",
    "Globe (Extra items)-Mindset CNI", "Fanaticism-Mindset CNI",
    "Moral Foundations-Mindset CNI", "Social Axioms-Mindset CNI",
    "Personality6 CNI")
)

# `walk` to apply patch_CNIplots to each plot in the list and print quietly
walk(names(CNIplot_data), \(mod_names) {
  cat("\n\n")
  print(
    pluck(CNIplot_data, mod_names) %>%
      patch_CNIplots())
  cat("\n\n")
})

```

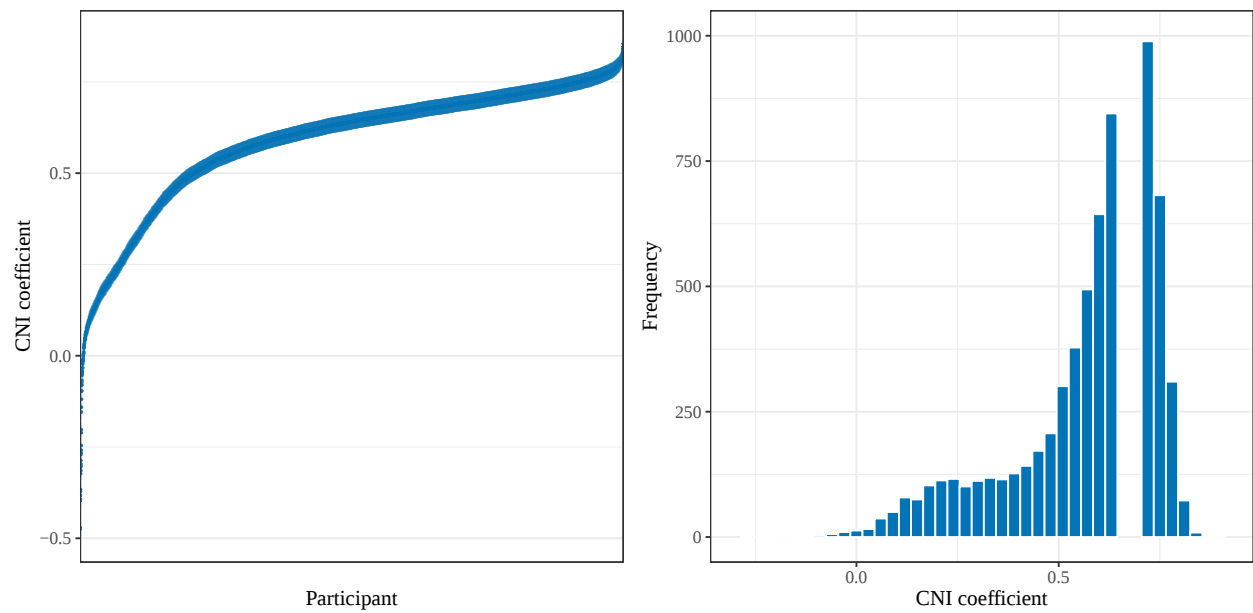


Figure 2: Mindset CNI

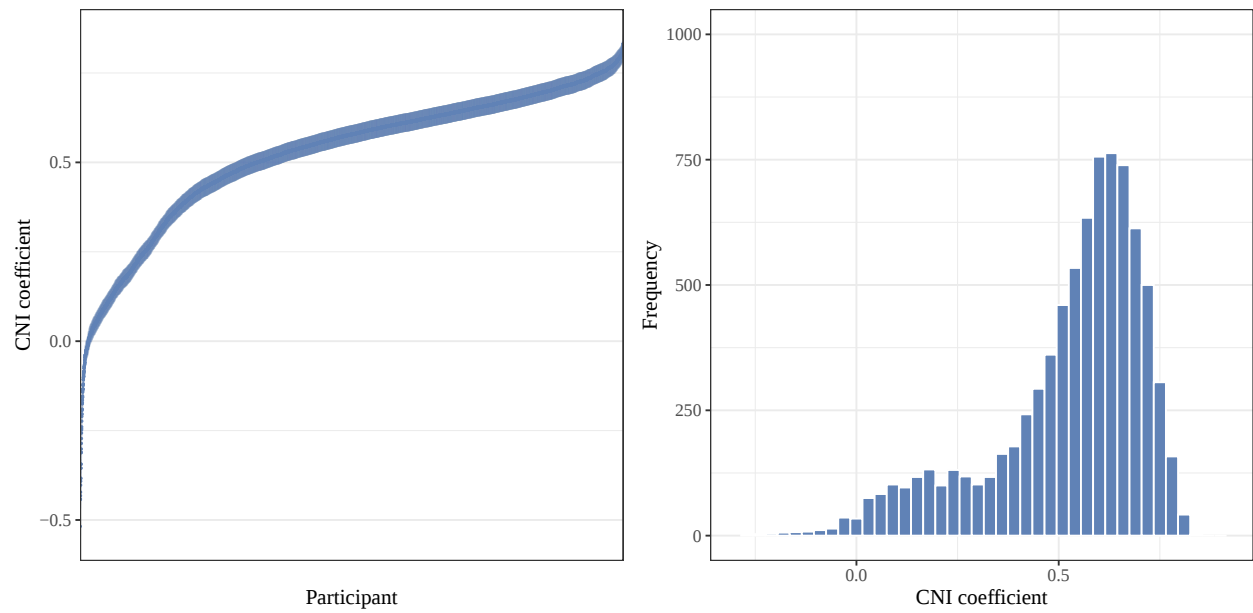


Figure 3: Isms-Mindset CNI

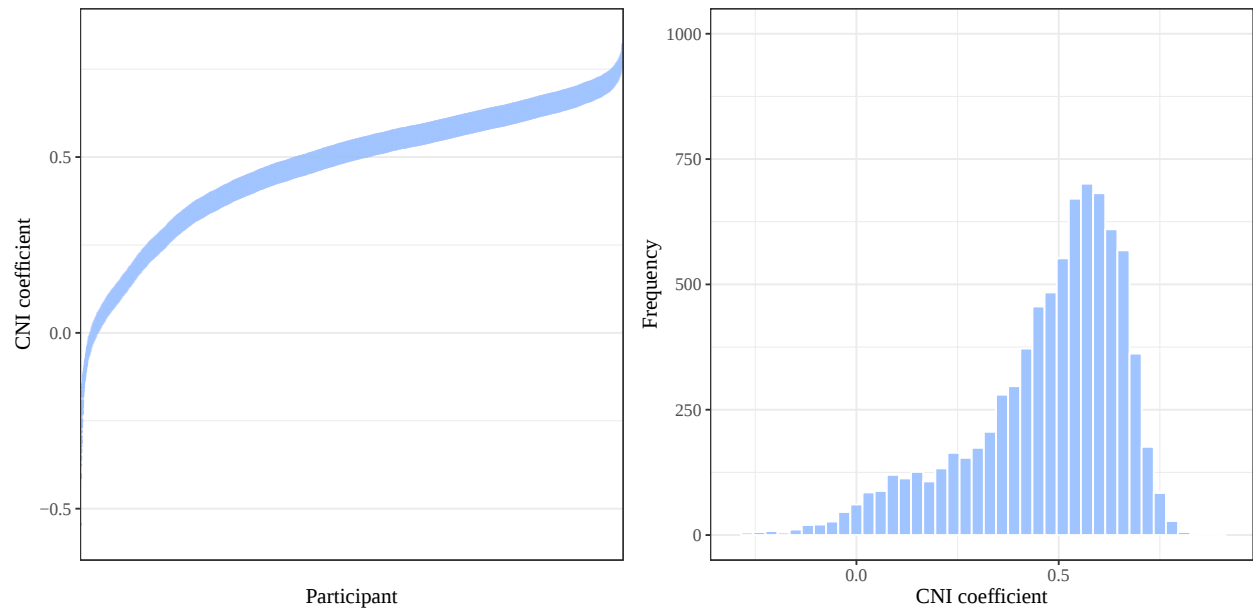


Figure 4: Globe-Mindset CNI

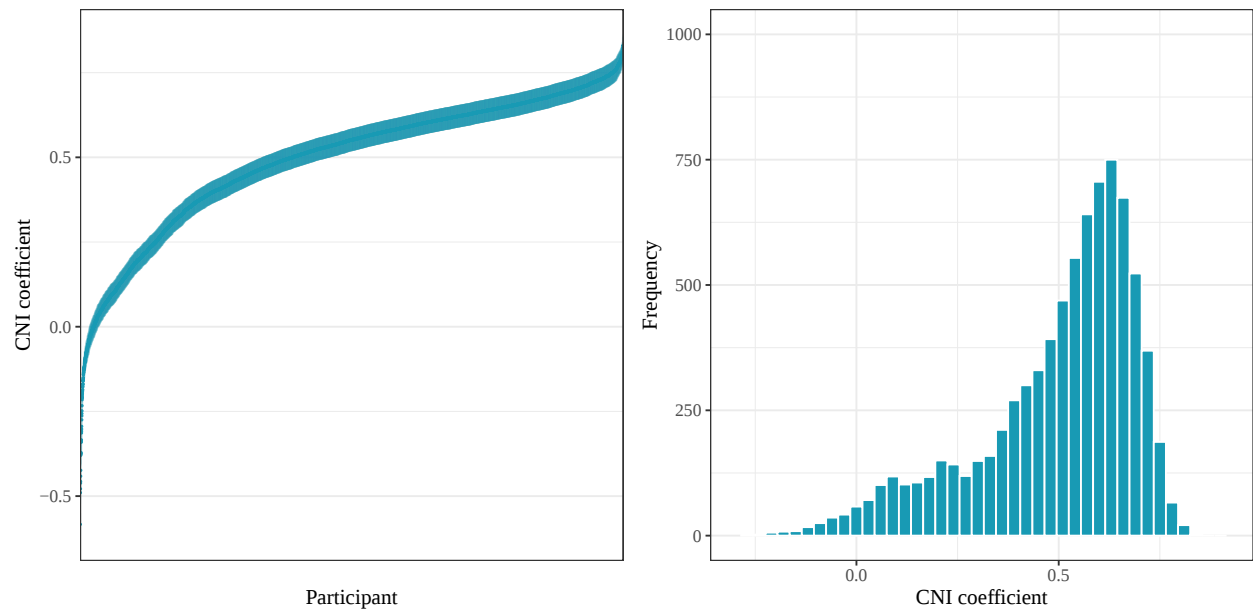


Figure 5: Globe (Extra items)-Mindset CNI

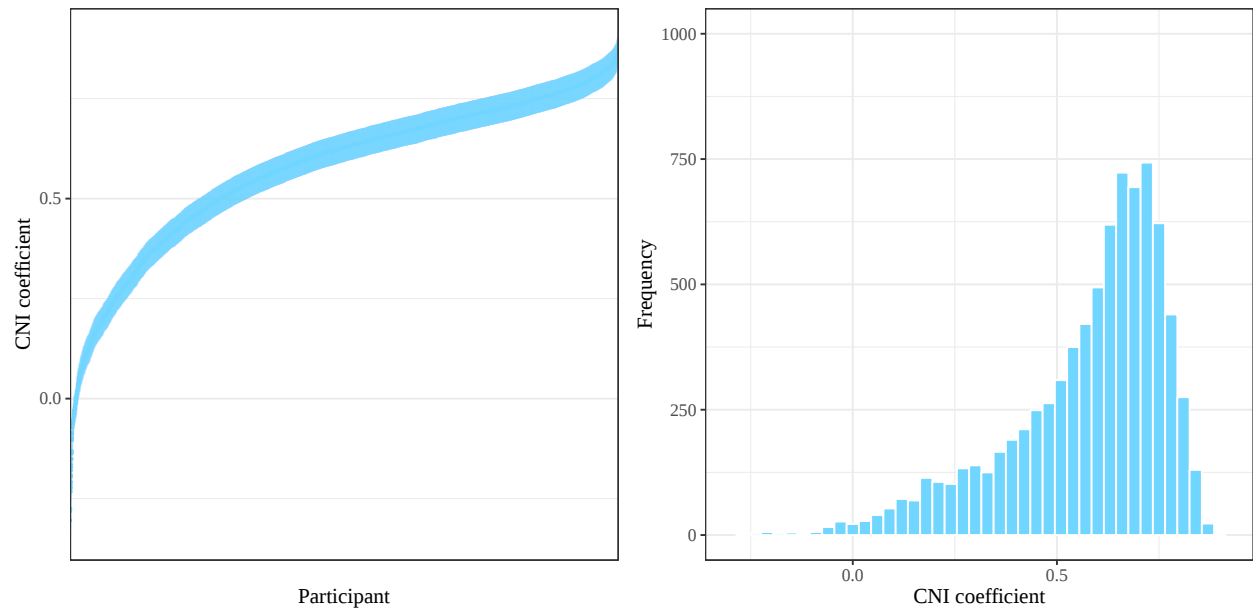


Figure 6: Fanaticism-Mindset CNI

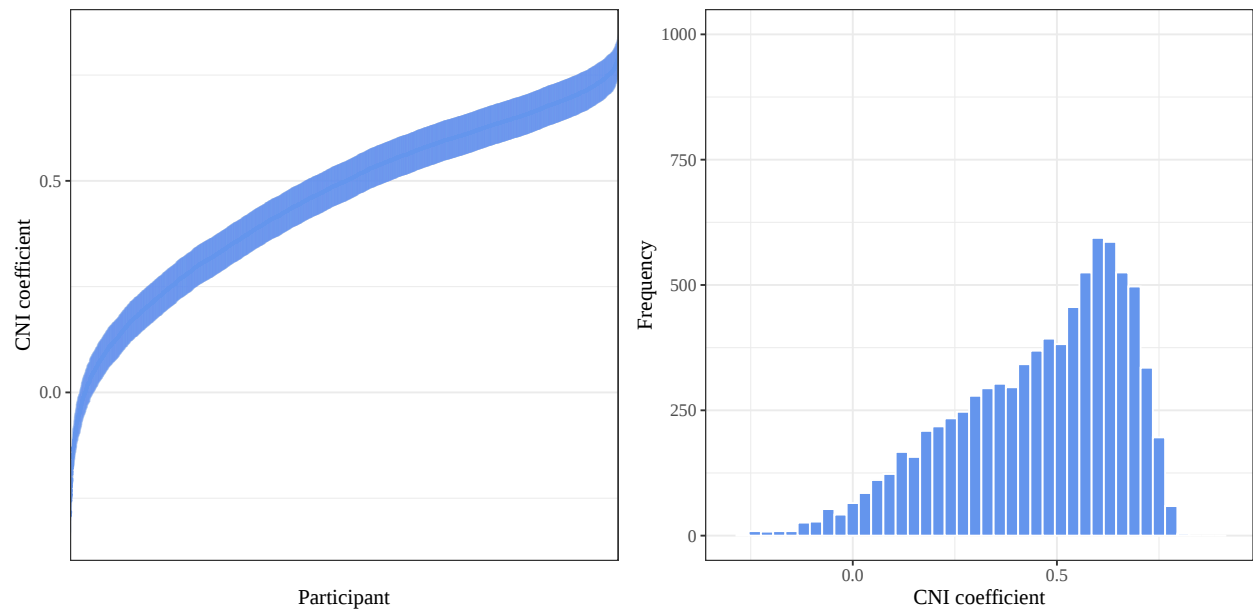


Figure 7: Moral Foundations-Mindset CNI

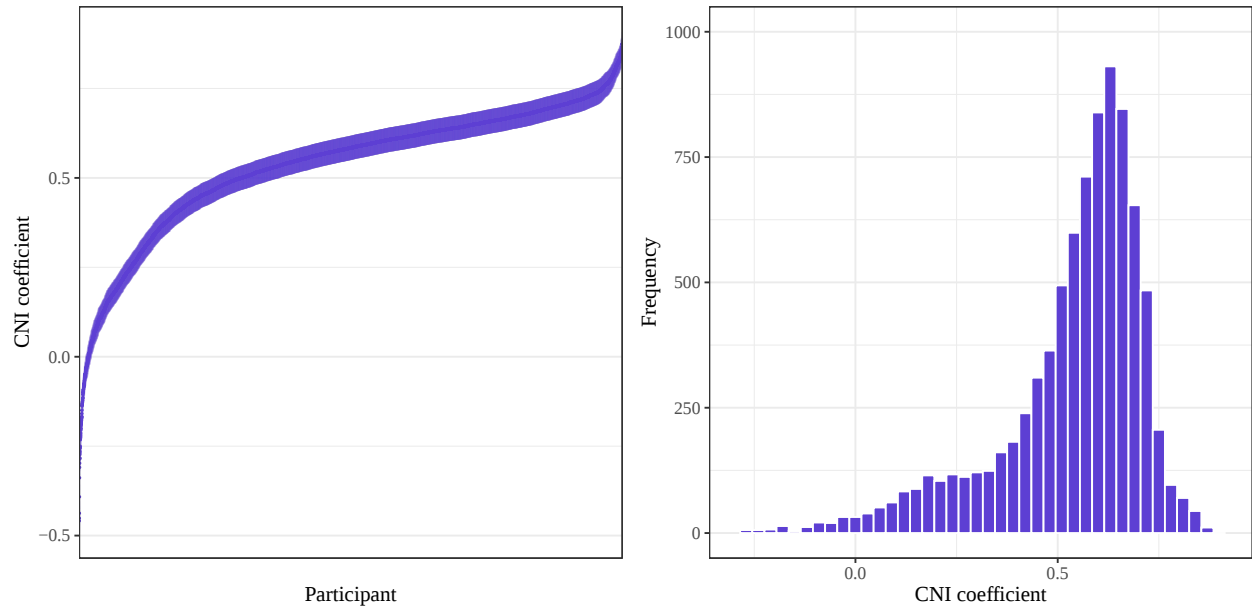


Figure 8: Social Axioms-Mindset CNI

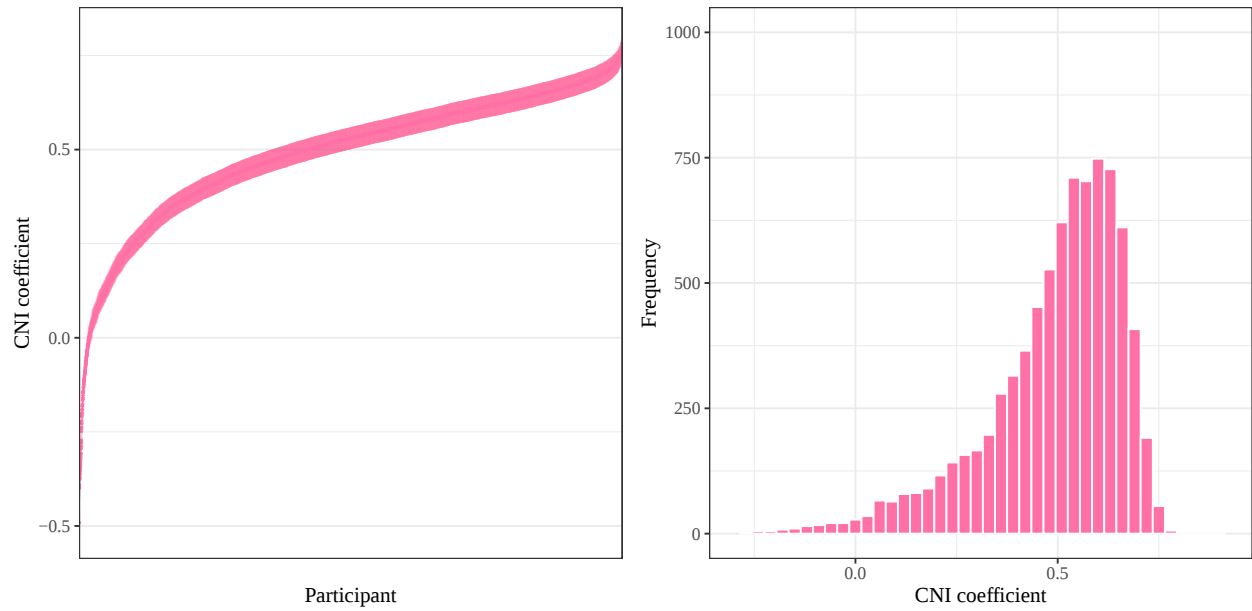


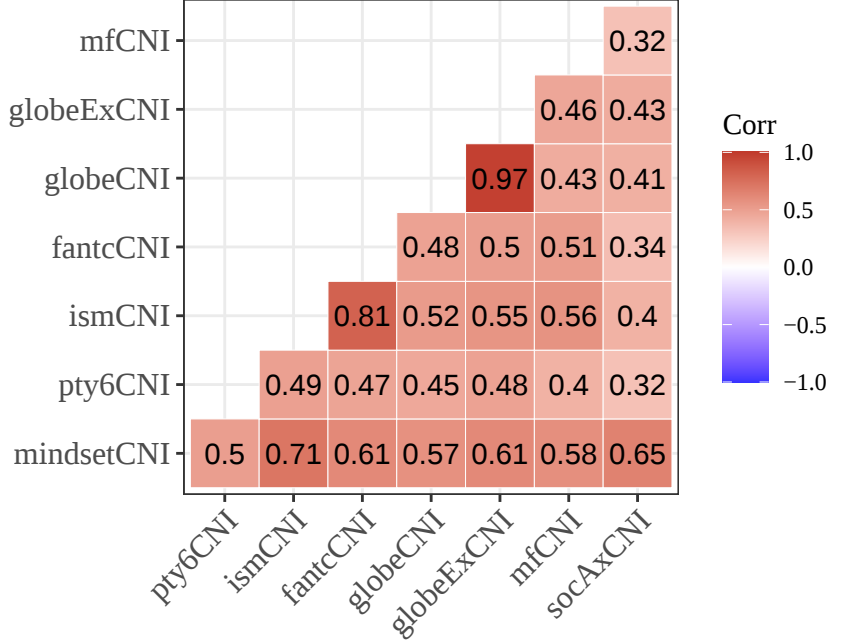
Figure 9: Personality6 CNI

2.1.3 Correlations across CNI types

3 A tibble: 8,588 x 3

mindsetCNI pID country

1 0.632 p1 Tanzania 2 0.743 p10 Tanzania 3 0.519 p100 Tanzania 4 0.678 p1000 Morocco 5 0.0953 p1001 Morocco 6 0.691 p1002 Morocco 7 0.745 p1003 Morocco 8 0.620 p1004 Morocco 9 0.785 p1005 Morocco 10 0.0194



p1006 Morocco # i 8,578 more rows

3.1 Person level slopes

```
#computing person level range

all_cni_models <- lst(mindsetCNI_mod, pty6CNI_mod, ismCNI_mod, fantcCNI_mod, globeCNI_mod, globeExCNI_mod)

compute_slopes <- function(model_obj) {
  obj_name <- deparse(substitute(model_obj))

  # Calculate slopes
  mod_slopes <- slopes(model_obj, variables = "z_ctype_response", by = "pID")

  return(mod_slopes)
}

all_slopes <- map_dfr(all_cni_models, compute_slopes, .id = "model_name")
```

Table 4: Range of CNI estimates across CNI-types

CNI type	Min value	Max value	Range
Globe Extra CNI	-0.5834636	0.8297936	1.413257
Globe CNI	-0.5443713	0.8200054	1.364377
Isms CNI	-0.5179212	0.8321807	1.350102
Social Axioms CNI	-0.4588872	0.8745496	1.333437
Mindset CNI	-0.4751415	0.8549507	1.330092
Personality 6 CNI	-0.4911961	0.7822982	1.273494
Fanaticism CNI	-0.3054580	0.8764859	1.181944
Moral Foundations CNI	-0.2912397	0.7990151	1.090255

Table 5: ?(caption)

(a) Cultural Normativity Index

	Mindset					
	Mindset	Ism	Globe	Globe (Extra)	Fanaticism	Moral Foundations
CNI	0.59*** [0.57, 0.61]	0.52*** [0.50, 0.55]	0.47*** [0.44, 0.50]	0.50*** [0.47, 0.53]	0.58*** [0.55, 0.62]	0.46*** [0.41, 0.51]
Overall Mean Profile	0.02*** [0.02, 0.02]	0.00 [0.01, 0.01]	0.02*** [0.01, 0.03]	0.02*** [0.01, 0.03]	0.00 [0.02, 0.02]	0.05*** [0.03, 0.07]
SD of CNI (across people)	0.17	0.21	0.20	0.21	0.22	0.22
SD of CNI (across country)	0.06	0.07	0.08	0.09	0.09	0.12
	0.78	0.81	0.84	0.83	0.76	0.83
Num.Obs.	1902174	366706	342327	390263	135601	176090

3.2 CNI Models' Summary

```

CNImods_table2 <- modelsummary(
  list("Mindset" = mindsetCNI_mod,
       "Ism" = ismCNI_mod,
       "Globe" = globeCNI_mod,
       "Globe (Extra)" = globeExCNI_mod,
       "Fanaticism" = fantcCNI_mod,
       "Moral Foundations" = mfCNI_mod,
       "Social Axioms" = socAxCNI_mod,
       "Big 6" = pty6CNI_mod),
  estimate = "{estimate}-{stars}",
  statistic = "[{conf.low}, {conf.high}]",
  # group = group + term ~ model,
  coef_omit = "Intercept|^status",
  coef_rename = c(
    "z_ctype_response" = "CNI",
    "overall.M" = "Overall Mean Profile",
    "SD (z_ctype_response pIDcountry)" = "SD of CNI (across people)",
    "SD (z_ctype_response country)" = "SD of CNI (across country)",
    "SD (Observations)" = ""),
  gof_map = c("nobs"),
  fmt = "%.2f",
  title = "Cultural Normativity Index",
  output = "kableExtra") %>%
add_header_above(c(" ", "Mindset" = 7, "Personality" = 1))

```

3.3 Country trends

```

#CNI country estimates from `slopes` (also can get CI's here) and `coef` (no CI's) are very close, bo
#cogCNI_mod_ctype.slopes <- slopes(cogCNI_mod , variables = "z_ctype_response", by = "country")

all_mods_ctype.trends <- map_dfr(lst(
  mindsetCNI_mod, ismCNI_mod, fantcCNI_mod, globeCNI_mod, globeExCNI_mod, mfCNI_mod, socAxCNI_mod, pt
  ~slopes(., variables = "z_ctype_response", by = "country"), .id = "model")

```

Table 6: Country estimates across CNI types

Country	Estimate	95% CI	p
Mindset CNI			
Tanzania	0.522	[0.5, 0.543]	< .001
Kenya	0.585	[0.563, 0.606]	< .001
Ethiopia	0.494	[0.473, 0.516]	< .001
Morocco	0.451	[0.43, 0.472]	< .001
Nepal	0.576	[0.555, 0.598]	< .001
India	0.535	[0.514, 0.557]	< .001
Bangladesh	0.523	[0.502, 0.544]	< .001
Malaysia	0.663	[0.641, 0.684]	< .001
Philippines	0.572	[0.551, 0.593]	< .001
Thailand	0.598	[0.577, 0.62]	< .001
Singapore	0.624	[0.603, 0.646]	< .001
China	0.627	[0.605, 0.648]	< .001
Taiwan	0.664	[0.643, 0.686]	< .001
Japan	0.553	[0.531, 0.574]	< .001
Turkey	0.635	[0.614, 0.657]	< .001
Greece	0.616	[0.595, 0.638]	< .001
Ukraine	0.617	[0.595, 0.638]	< .001
Poland	0.667	[0.645, 0.688]	< .001
Spain	0.596	[0.574, 0.617]	< .001
Peru	0.606	[0.584, 0.627]	< .001
Argentina	0.647	[0.626, 0.669]	< .001
Brazil	0.675	[0.653, 0.696]	< .001
Mexico	0.573	[0.551, 0.594]	< .001
USA	0.555	[0.533, 0.576]	< .001
Canada	0.6	[0.578, 0.621]	< .001
England	0.574	[0.553, 0.596]	< .001
Germany	0.659	[0.637, 0.68]	< .001
Isms-Mindset CNI			
Tanzania	0.414	[0.389, 0.44]	< .001
Kenya	0.54	[0.514, 0.565]	< .001
Ethiopia	0.44	[0.414, 0.466]	< .001
Morocco	0.47	[0.444, 0.496]	< .001
Nepal	0.504	[0.478, 0.529]	< .001
India	0.47	[0.445, 0.496]	< .001
Bangladesh	0.471	[0.445, 0.497]	< .001
Malaysia	0.621	[0.595, 0.647]	< .001
Philippines	0.456	[0.43, 0.481]	< .001
Thailand	0.504	[0.478, 0.53]	< .001
Singapore	0.514	[0.488, 0.539]	< .001
China	0.565	[0.539, 0.591]	< .001
Taiwan	0.653	[0.628, 0.679]	< .001
Japan	0.517	[0.491, 0.543]	< .001
Turkey	0.592	[0.566, 0.618]	< .001
Greece	0.573	[0.548, 0.599]	< .001
Ukraine	0.505	[0.479, 0.53]	< .001
Poland	0.626	[0.6, 0.652]	< .001
Spain	0.546	[0.52, 0.572]	< .001
Peru	0.523	[0.497, 0.549]	< .001
Argentina	0.565	[0.539, 0.591]	< .001

(continued)

Country	Estimate	95% CI	p
Brazil	0.625	[0.599, 0.651]	< .001
Mexico	0.441	[0.415, 0.467]	< .001
USA	0.436	[0.41, 0.462]	< .001
Canada	0.508	[0.482, 0.534]	< .001
England	0.484	[0.458, 0.51]	< .001
Germany	0.618	[0.593, 0.644]	< .001
Fanaticism-Mindset CNI			
Tanzania	0.527	[0.491, 0.562]	< .001
Kenya	0.619	[0.583, 0.654]	< .001
Ethiopia	0.394	[0.358, 0.429]	< .001
Morocco	0.466	[0.43, 0.501]	< .001
Nepal	0.551	[0.516, 0.587]	< .001
India	0.473	[0.437, 0.508]	< .001
Bangladesh	0.415	[0.38, 0.451]	< .001
Malaysia	0.636	[0.6, 0.672]	< .001
Philippines	0.544	[0.508, 0.58]	< .001
Thailand	0.566	[0.53, 0.601]	< .001
Singapore	0.595	[0.559, 0.63]	< .001
China	0.46	[0.424, 0.496]	< .001
Taiwan	0.582	[0.547, 0.618]	< .001
Japan	0.583	[0.547, 0.619]	< .001
Turkey	0.629	[0.593, 0.664]	< .001
Greece	0.672	[0.636, 0.707]	< .001
Ukraine	0.662	[0.626, 0.697]	< .001
Poland	0.723	[0.688, 0.759]	< .001
Spain	0.616	[0.581, 0.652]	< .001
Peru	0.619	[0.584, 0.655]	< .001
Argentina	0.692	[0.656, 0.728]	< .001
Brazil	0.703	[0.668, 0.739]	< .001
Mexico	0.57	[0.534, 0.605]	< .001
USA	0.514	[0.478, 0.549]	< .001
Canada	0.635	[0.599, 0.67]	< .001
England	0.559	[0.523, 0.594]	< .001
Germany	0.732	[0.696, 0.768]	< .001
Globe-Mindset CNI			
Tanzania	0.348	[0.317, 0.378]	< .001
Kenya	0.436	[0.406, 0.467]	< .001
Ethiopia	0.332	[0.302, 0.363]	< .001
Morocco	0.254	[0.223, 0.284]	< .001
Nepal	0.509	[0.478, 0.54]	< .001
India	0.426	[0.396, 0.457]	< .001
Bangladesh	0.444	[0.414, 0.475]	< .001
Malaysia	0.527	[0.496, 0.557]	< .001
Philippines	0.467	[0.436, 0.497]	< .001
Thailand	0.447	[0.416, 0.477]	< .001
Singapore	0.556	[0.525, 0.587]	< .001
China	0.526	[0.495, 0.556]	< .001
Taiwan	0.529	[0.499, 0.56]	< .001
Japan	0.461	[0.431, 0.492]	< .001
Turkey	0.617	[0.586, 0.647]	< .001
Greece	0.492	[0.462, 0.523]	< .001

(continued)

Country	Estimate	95% CI	p
Ukraine	0.529	[0.498, 0.559]	< .001
Poland	0.524	[0.493, 0.555]	< .001
Spain	0.474	[0.443, 0.504]	< .001
Peru	0.49	[0.46, 0.521]	< .001
Argentina	0.542	[0.512, 0.573]	< .001
Brazil	0.56	[0.529, 0.59]	< .001
Mexico	0.405	[0.374, 0.435]	< .001
USA	0.431	[0.401, 0.462]	< .001
Canada	0.449	[0.418, 0.48]	< .001
England	0.418	[0.387, 0.448]	< .001
Germany	0.57	[0.539, 0.601]	< .001
Globe Extra-Mindset CNI			
Tanzania	0.335	[0.302, 0.368]	< .001
Kenya	0.436	[0.403, 0.469]	< .001
Ethiopia	0.34	[0.307, 0.374]	< .001
Morocco	0.277	[0.243, 0.31]	< .001
Nepal	0.499	[0.466, 0.532]	< .001
India	0.415	[0.382, 0.449]	< .001
Bangladesh	0.474	[0.441, 0.507]	< .001
Malaysia	0.526	[0.493, 0.559]	< .001
Philippines	0.464	[0.431, 0.497]	< .001
Thailand	0.453	[0.42, 0.486]	< .001
Singapore	0.573	[0.54, 0.606]	< .001
China	0.538	[0.505, 0.571]	< .001
Taiwan	0.544	[0.511, 0.578]	< .001
Japan	0.495	[0.462, 0.529]	< .001
Turkey	0.628	[0.595, 0.662]	< .001
Greece	0.54	[0.507, 0.574]	< .001
Ukraine	0.548	[0.515, 0.581]	< .001
Poland	0.574	[0.541, 0.607]	< .001
Spain	0.523	[0.49, 0.556]	< .001
Peru	0.508	[0.475, 0.542]	< .001
Argentina	0.586	[0.553, 0.62]	< .001
Brazil	0.576	[0.543, 0.61]	< .001
Mexico	0.433	[0.4, 0.466]	< .001
USA	0.481	[0.447, 0.514]	< .001
Canada	0.545	[0.512, 0.578]	< .001
England	0.524	[0.491, 0.557]	< .001
Germany	0.648	[0.614, 0.681]	< .001
Moral Foundations-Mindset CNI			
Tanzania	0.301	[0.254, 0.348]	< .001
Kenya	0.362	[0.315, 0.409]	< .001
Ethiopia	0.258	[0.211, 0.305]	< .001
Morocco	0.229	[0.182, 0.276]	< .001
Nepal	0.347	[0.299, 0.394]	< .001
India	0.367	[0.32, 0.414]	< .001
Bangladesh	0.41	[0.363, 0.457]	< .001
Malaysia	0.298	[0.251, 0.345]	< .001
Philippines	0.376	[0.329, 0.423]	< .001
Thailand	0.365	[0.318, 0.412]	< .001
Singapore	0.532	[0.485, 0.58]	< .001

(continued)

Country	Estimate	95% CI	p
China	0.541	[0.493, 0.588]	< .001
Taiwan	0.625	[0.578, 0.673]	< .001
Japan	0.54	[0.493, 0.588]	< .001
Turkey	0.592	[0.545, 0.639]	< .001
Greece	0.608	[0.561, 0.655]	< .001
Ukraine	0.463	[0.416, 0.51]	< .001
Poland	0.646	[0.599, 0.694]	< .001
Spain	0.493	[0.446, 0.54]	< .001
Peru	0.453	[0.405, 0.5]	< .001
Argentina	0.557	[0.51, 0.604]	< .001
Brazil	0.615	[0.568, 0.662]	< .001
Mexico	0.349	[0.302, 0.396]	< .001
USA	0.459	[0.412, 0.506]	< .001
Canada	0.518	[0.47, 0.565]	< .001
England	0.531	[0.484, 0.578]	< .001
Germany	0.629	[0.582, 0.676]	< .001
Social Axioms-Mindset CNI			
Tanzania	0.419	[0.385, 0.453]	< .001
Kenya	0.475	[0.441, 0.51]	< .001
Ethiopia	0.42	[0.386, 0.454]	< .001
Morocco	0.256	[0.222, 0.29]	< .001
Nepal	0.533	[0.499, 0.567]	< .001
India	0.502	[0.468, 0.536]	< .001
Bangladesh	0.471	[0.437, 0.505]	< .001
Malaysia	0.723	[0.689, 0.757]	< .001
Philippines	0.549	[0.515, 0.583]	< .001
Thailand	0.606	[0.572, 0.64]	< .001
Singapore	0.552	[0.518, 0.586]	< .001
China	0.607	[0.573, 0.641]	< .001
Taiwan	0.631	[0.597, 0.665]	< .001
Japan	0.533	[0.499, 0.567]	< .001
Turkey	0.552	[0.518, 0.586]	< .001
Greece	0.555	[0.521, 0.589]	< .001
Ukraine	0.599	[0.565, 0.633]	< .001
Poland	0.608	[0.574, 0.642]	< .001
Spain	0.54	[0.506, 0.574]	< .001
Peru	0.576	[0.542, 0.611]	< .001
Argentina	0.562	[0.528, 0.596]	< .001
Brazil	0.654	[0.62, 0.688]	< .001
Mexico	0.523	[0.489, 0.557]	< .001
USA	0.504	[0.47, 0.538]	< .001
Canada	0.578	[0.544, 0.612]	< .001
England	0.491	[0.457, 0.525]	< .001
Germany	0.559	[0.525, 0.593]	< .001
Personality6 CNI			
Tanzania	0.504	[0.475, 0.534]	< .001
Kenya	0.541	[0.512, 0.57]	< .001
Ethiopia	0.454	[0.425, 0.483]	< .001
Morocco	0.21	[0.181, 0.239]	< .001
Nepal	0.494	[0.464, 0.523]	< .001
India	0.392	[0.362, 0.421]	< .001

(continued)

Country	Estimate	95% CI	p
Bangladesh	0.423	[0.394, 0.452]	< .001
Malaysia	0.551	[0.522, 0.58]	< .001
Philippines	0.567	[0.537, 0.596]	< .001
Thailand	0.483	[0.454, 0.512]	< .001
Singapore	0.484	[0.455, 0.514]	< .001
China	0.522	[0.493, 0.552]	< .001
Taiwan	0.502	[0.473, 0.531]	< .001
Japan	0.45	[0.421, 0.48]	< .001
Turkey	0.538	[0.509, 0.567]	< .001
Greece	0.523	[0.493, 0.552]	< .001
Ukraine	0.563	[0.534, 0.592]	< .001
Poland	0.546	[0.517, 0.575]	< .001
Spain	0.506	[0.477, 0.536]	< .001
Peru	0.524	[0.495, 0.554]	< .001
Argentina	0.594	[0.565, 0.623]	< .001
Brazil	0.574	[0.545, 0.603]	< .001
Mexico	0.531	[0.502, 0.56]	< .001
USA	0.48	[0.451, 0.51]	< .001
Canada	0.501	[0.472, 0.53]	< .001
England	0.446	[0.416, 0.475]	< .001
Germany	0.532	[0.503, 0.561]	< .001

Table 7: Confidence Interval Range across CNI types

Model	CI Range
Moral Foundations-Mindset CNI	0.0944
Fanaticism-Mindset CNI	0.0712
Social Axioms-Mindset CNI	0.0681
Globe-Extra-Mindset CNI	0.0665
Globe-Mindset CNI	0.0612
Personality 6 CNI	0.0584
Isms-Mindset CNI	0.0517
Mindset CNI	0.0429

4 RQ 2: Associations between CNI and personality and mindset variables

```
# Moderators here have to continuous, this won't work for categorical moderators
#Explanation for function below
  #[which CNI-type]:
  #cni_profiles_data <- mindsetCNI_profiles1$self.ctr_profiles
  #[which moderator]:
  #modtr_pattern <- "~scP.*indv$" (scP = pty; scM = mindset)
  #[causal relationship]:
  #CNI <- Continuous moderator
```

```
#This version of the function is specifically necessary for parallel processing! Here the modtr_patte
```

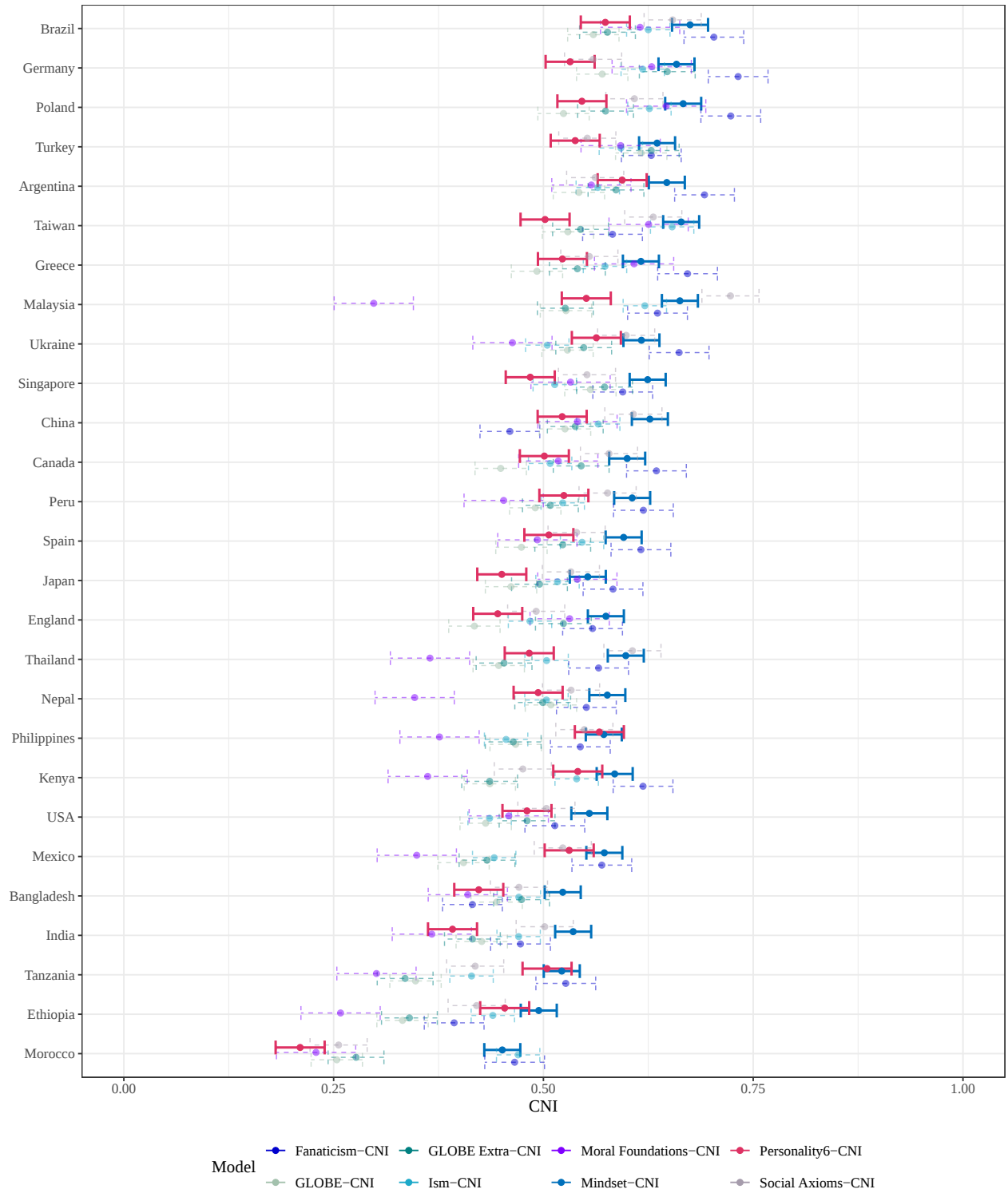


Figure 10: CNI estimates across countries: Eight CNIs

```

cni.ContMod_effects <- function(cni_profiles_data, modtr_pattern) {

  # Determine the level based on the modtr_pattern
  level <- if(grepl("indv", modtr_pattern)) "Individual" else if(grepl("comm", modtr_pattern)) "Country"

  #right data format
  cni.modtr_data <- data2 %>%
    #select moderator scales individual level (pID) scores
    #---$select moderators$ - specify regex
    select(pID, matches(modtr_pattern)) %>%
    #mean centering the moderator score cols
    #since this standardization is col-wise, running plyr is not an issue
    mutate_if(is.numeric,
              ~. - mean(., na.rm = TRUE)) %>%
    pivot_longer(-pID,
                 names_to = "modtr", #moderator name
                 values_to = "modtr_score") %>% # moderator score
    full_join(cni_profiles_data, by = c("pID"), relationship = "many-to-many")

  #CNI <- moderator
  cni.modtr_models <- cni.modtr_data %>%
    tidyr::nest(data = -modtr) %>%
    mutate(
      #cni ~ mod
      mod.linear = map(data, ~lmer(z_response ~ z_ctype_response * modtr_score + (-1 + z_ctype_response
      #cni ~ mod + mod^2
      mod.quadratic = map(data, ~lmer(z_response ~ z_ctype_response * modtr_score + z_ctype_response *
      #save results
      tidy_mod.linear = map(mod.linear, tidy, conf.int = TRUE),
      tidy_mod.quadratic = map(mod.quadratic, tidy, conf.int = TRUE)
    )

  results_linear <- cni.modtr_models %>%
    select(modtr, tidy_mod.linear) %>%
    unnest(cols = c(tidy_mod.linear)) %>%
    filter(term == "z_ctype_response:modtr_score") %>%
    select(modtr, term, estimate, conf.low, conf.high, p.value)

  results_quadratic <- cni.modtr_models %>%
    select(modtr, tidy_mod.quadratic) %>%
    unnest(cols = c(tidy_mod.quadratic)) %>%
    filter(term == "z_ctype_response:I(modtr_score^2)") %>%
    select(modtr, term, estimate, conf.low, conf.high, p.value)

  output <- bind_rows(
    !!level := results_linear,
    !!level := results_quadratic,
    .id = "level"
  )

  return(output)
}

```

```
#cni.ContMod_effects(pty6CNI_profiles$self.ctr_profiles, "scP_Consc.indv")
```

Given the large n , especially for mindsetCNI profiles and the total number of moderators, it will be necessary to use parallel processing for this analysis. It significantly reduces computation time for multiple independent tasks. Instead of splitting the data itself, which is common in parallel processing, we split the list of individual difference variables (e.g., those matching the pattern “`^scMC.*indv$`”). We create chunks of these variables, distributed across the number of cores - 1. The function `cni.ContMod_effects` function is applied to each variable in `var_names` simultaneously across different cores. Each core processes a different moderator variable independently.

The mindsetCNI models were run on the Talapas (120GB RAM and 30 cores). For the rest of the CNI types the hardware used involved 64GB RAM and 12 core processor, with the longest processing time for a model being 25mins (1529.822 sec elapsed). A motivated reader may choose to try to optimize this even further, in a more constrained environment.

```
#function to specify the correct variable names for all moderators [Pty + Cog + swb]
```

```
specify_var_names <- \(data){
  data %>%
    mutate(
      modtr = case_when(

        #Personality
        str_detect(modtr, "Consc") ~ "Conscientiousness",
        str_detect(modtr, "Hon") ~ "Honesty",
        str_detect(modtr, "Agr") ~ "Agreeableness",
        str_detect(modtr, "Res") ~ "Resilience",
        str_detect(modtr, "Ext") ~ "Extraversion",
        str_detect(modtr, "Vir") ~ "Originality/Virtuosity",
        str_detect(modtr, "Dis") ~ "Disintegration",
        str_detect(modtr, "SocialSelfReg") ~ "Social Self-Regulation",
        str_detect(modtr, "Dynamism") ~ "Dynamism",

        #Mindset

        #Isms
        str_detect(modtr, "Isms_TradRelig") ~ "Traditional Religiousness",
        str_detect(modtr, "Isms_UnmiSelfInt") ~ "Unmitigated Self-Interest",
        str_detect(modtr, "CommRation") ~ "Communal Rationalism",
        str_detect(modtr, "SubjSpirit") ~ "Subjective Spirituality",
        str_detect(modtr, "IneqAver") ~ "Inequality Aversion",

        #GLOBE
        str_detect(modtr, "globe_igc") ~ "InGroup Collectivism",
        str_detect(modtr, "globe_ic") ~ "Institutional Collectivism",
        str_detect(modtr, "globe_pf") ~ "Performance/Achievement Orientation",
        str_detect(modtr, "globe_un") ~ "Uncertainty Avoidance",
        str_detect(modtr, "globe_ge") ~ "Gender Egalitarian",
        str_detect(modtr, "globe_po") ~ "Power Distance",
        str_detect(modtr, "globe_fu") ~ "Future Orientation",
        str_detect(modtr, "globe_ass") ~ "Assertiveness",
```

```

    str_detect(modtr, "globe_hu") ~ "Humane Orientation",

    #Social Axioms
    str_detect(modtr, "SocAx_Cynicism") ~ "Social Cynicism",
    str_detect(modtr, "SocAx_RewardForApp") ~ "Reward for Application",
    str_detect(modtr, "SocAx_Complexity") ~ "Social Complexity",
    str_detect(modtr, "SocAx_FateControl") ~ "Fate Control",
    str_detect(modtr, "SocAx_Religiosity") ~ "Religiosity",

    #Moral Foundations
    str_detect(modtr, "MFQ_Harm") ~ "Harm",
    str_detect(modtr, "MFQ_Fairness") ~ "Fairness",
    str_detect(modtr, "MFQ_Loyalty") ~ "Loyalty",
    str_detect(modtr, "MFQ_Authority") ~ "Authority",
    str_detect(modtr, "MFQ_Purity") ~ "Purity",

    #Individualism-Collectivism (Gelfland)
    str_detect(modtr, "IndvColl_CollecHori") ~ "Horizontal Collectivism",
    str_detect(modtr, "IndvColl_CollecVert") ~ "Vertical Collectivism",
    str_detect(modtr, "IndvColl_IndivHori") ~ "Horizontal Individualism",
    str_detect(modtr, "IndvColl_IndivVert") ~ "Vertical Individualism",

    #Family Values
    str_detect(modtr, "FamValCohesion") ~ "Cohesion",
    str_detect(modtr, "FamValHierarchy") ~ "Hierarchy",

    #Schwartz Values
    str_detect(modtr, "Value_SfTran") ~ "Self Transcendence",
    str_detect(modtr, "Value_Consrv") ~ "Conservation",
    str_detect(modtr, "Value_SelfEnh") ~ "Self Enhancement",
    str_detect(modtr, "Value_OpnChg") ~ "Openness to Change",

    #Fanaticism
    str_detect(modtr, "fntc") ~ "Fanaticism",

    #Materialism
    str_detect(modtr, "Material") ~ "Materialism",

    #Machiavellianism
    str_detect(modtr, "Machiaveln") ~ "Machiavellianism",

    #Prone to Aggression (Honor)
    str_detect(modtr, "Prone_Aggr") ~ "Prone to Aggression",

    #Ethnonationalism
    str_detect(modtr, "Ethnonational") ~ "Ethnonationalism",

    #Tightness-Looseness
    str_detect(modtr, "Tightness") ~ "Tightness",

    #Amoralism
    str_detect(modtr, "Amoralism") ~ "Amoralism",

```

Table 8: Descriptive Statistics for Continuos Moderator Effect size Estimates

	min	max	range	kurtosis	skew	n	mean	sd
Linear effects								
Country	-0.14	0.21	0.35	10.40	1.33	424	0.00	0.03
Individual	-0.03	0.25	0.29	76.66	6.69	424	0.00	0.02
Quadratic effects								
Country	-0.65	1.15	1.80	81.46	3.47	424	0.01	0.09
Individual	-0.08	0.03	0.11	88.39	-4.22	424	0.00	0.01

```

#Duke Religiosity Index
str_detect(modtr, "DRI_OrgRelgAc") ~ "Organizational Religious Activity",
str_detect(modtr, "DRI_NonOrgRelgAc") ~ "Non-organizational Religious Activity",
str_detect(modtr, "DRI_IntrnscRelg") ~ "Intrinsic religiosity",

#Civic Multicultural Nationalism
str_detect(modtr, "CivicMCNational") ~ "Civic Multicultural Nationalism",

TRUE ~ modtr
)
}

```

4.1 Descriptives - Effect size estimates

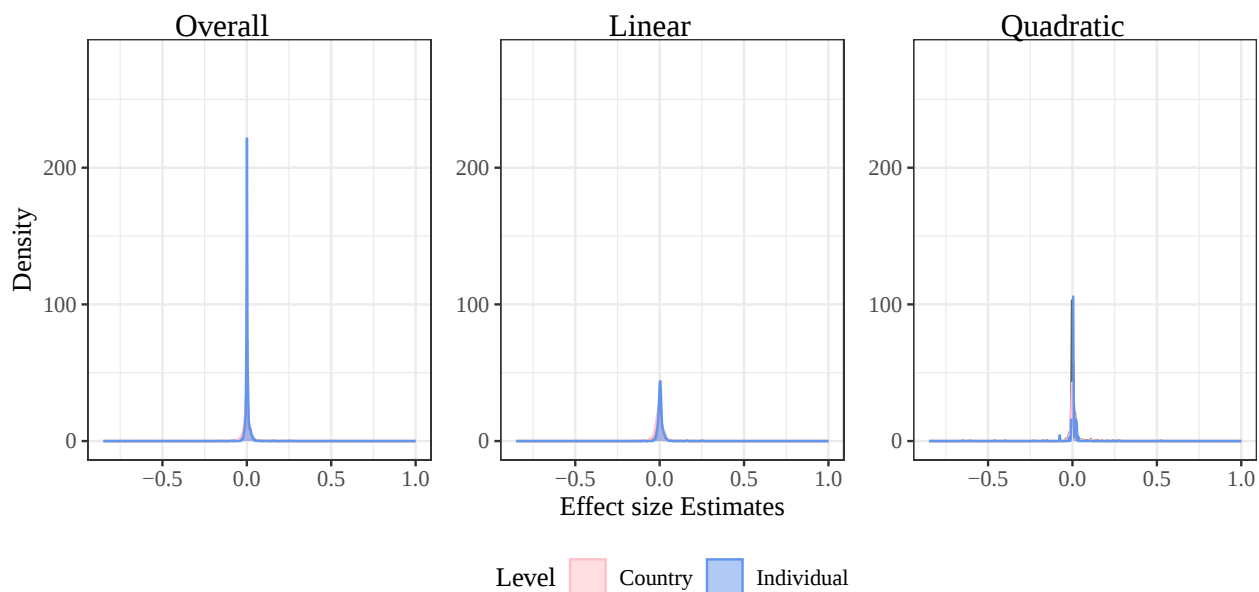


Figure 11: Distribution of Continuos Moderator Effect size Estimates

4.2 Tables

```
CNIplot_data_details = tibble(  
  mod_names = c(  
    "mindsetCNI_plot",  
    "ismCNI_plot",  
    "globeCNI_plot",  
    "globeExCNI_plot",  
    "fantcCNI_plot",  
    "mfCNI_plot",  
    "socAxCNI_plot",  
    "pty6CNI_plot"  
  ),  
  caption = c(  
    "Mindset CNI",  
    "Isms-Mindset CNI",  
    "Globe-Mindset CNI",  
    "Globe (Extra items)",  
    "Fanaticism-Mindset CNI",  
    "Moral Foundations-Mindset CNI",  
    "Social Axioms-Mindset CNI",  
    "Personality6 CNI"  
  )  
)  
  
cni.contMod_object_names <- c(  
  "mindsetCNI.mindset_effects.Rdata",  
  "mindsetCNI.pty_effects.Rdata",  
  "ismCNI.mindset_effects.Rdata",  
  "ismCNI.pty_effects.Rdata",  
  "globeCNI.mindset_effects.Rdata",  
  "globeCNI.pty_effects.Rdata",  
  "globeExCNI.mindset_effects.Rdata",  
  "globeExCNI.pty_effects.Rdata",  
  "fantcCNI.mindset_effects.Rdata",  
  "fantcCNI.pty_effects.Rdata",  
  "mfCNI.mindset_effects.Rdata",  
  "mfCNI.pty_effects.Rdata",  
  "socAxCNI.mindset_effects.Rdata",  
  "socAxCNI.pty_effects.Rdata",  
  "pty6CNI.mindset_effects.Rdata",  
  "pty6CNI.pty_effects.Rdata"  
)  
  
cni.contMod_tbl_details <- tibble(  
  object_names = names(all_cni.contMod_effects)) %>%  
  mutate(obj_name = str_extract(object_names, "^[^.]+")) %>%  
  left_join(  
    CNIplot_data_details %>%  
    mutate(mod_name = str_remove(mod_names, "_plot$")),  
    by = c("obj_name" = "mod_name")) %>%  
  select(object_names, caption) %>%
```

```

mutate(
  CNI_type = case_when(
    str_detect(object_names, ".mindset") ~ "Mindset",
    str_detect(object_names, ".pty") ~ "Personality",
    TRUE ~ NA_character_ # for any cases that don't match either condition
  ) ) %>%
mutate(caption = paste0("Associations between ",caption, " and ", CNI_type, " variables")) %>%
select(object_names, caption, CNI_type)

```

4.2.1 Linear and Quadratic effects (CNI)

```

cni.ContMod_effects_table <- \(data, title){
df2 <- data %>%
  #specify the correct variable/moderator name
  specify_var_names() %>%
  select(-relation) %>%
  mutate(
    p.value = map_chr(p.value, papaja::printp),
    across(where(is.numeric), ~ round(., 3)),
    ci = paste0("[", conf.low, ", ", conf.high, "]"),
    term = ifelse(str_detect(term, "2"), "Quadratic", "Linear"),
    estimate = as.character(estimate)
  ) %>%
  select(level, modtr, term, estimate, ci, p.value) %>%
  pivot_longer(cols = c(estimate, ci, p.value), names_to = "stat", values_to = "stat_value") %>%
  unite(term, term, stat) %>%
  pivot_wider(names_from = term, values_from = stat_value) %>%
  arrange(desc(level)) %>%
  select(-level) %>%
  select(modtr, contains("Linear"), contains("Quadratic"))

# Calculate the number of rows for each level
no.modtrs <- df2 %>%
  distinct(modtr) %>%
  nrow()

df2 %>%
  kable(booktabs = T,
        escape = F,
        format = "latex",
        longtable = TRUE,
        col.names = c(" ", "Est", "95\\% CI", "p", "Est", "95\\% CI", "p"),
        caption = title ) %>%
  kable_styling(latex_options = c("repeat_header", "longtable")) %>%
  add_header_above(c(" ", "Linear (b)" = 3, "Quadratic (b^2)" = 3),
    escape = FALSE,
    line = TRUE) %>%
  group_rows("Individual level", 1, no.modtrs, bold = TRUE, italic = T) %>%
  group_rows("Country level", no.modtrs+1, no.modtrs*2, bold = TRUE, italic = T) %>%
  column_spec(1, width = "5.5cm")
}

```

```

cni.contMod_tbl_details %>%
  filter(CNI_type == "Mindset") %>%
  pwalk(function(object_names, caption, ...) {
    cat("\n\n")
    print(
      pluck(all_cni.contMod_effects, object_names) %>%
        cni.ContMod_effects_table(., caption)
    )
    cat("\n\n")
  })

```

Table 9: Associations between Mindset CNI and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.012	[0.011, 0.013]	< .001	0.001	[0.001, 0.001]	< .001
Fairness	0.014	[0.013, 0.015]	< .001	0.002	[0.002, 0.002]	< .001
Loyalty	0.004	[0.003, 0.005]	< .001	0	[0, 0]	.004
Authority	0.001	[0, 0.002]	.008	0	[0, 0]	.931
Purity	0.003	[0.002, 0.004]	< .001	0	[0, 0]	< .001
Social Cynicism	0.003	[0.002, 0.004]	< .001	0	[-0.001, 0]	< .001
Reward for Application	0.011	[0.01, 0.012]	< .001	0	[0, 0]	< .001
Social Complexity	0.009	[0.008, 0.009]	< .001	0	[0, 0]	< .001
Fate Control	-0.004	[-0.005, -0.003]	< .001	-0.001	[-0.001, -0.001]	< .001
Religiosity	0.002	[0.001, 0.002]	< .001	0	[0, 0]	< .001
Horizontal Collectivism	0.01	[0.01, 0.011]	< .001	0.001	[0.001, 0.001]	< .001
Vertical Collectivism	0.008	[0.007, 0.009]	< .001	0.001	[0, 0.001]	< .001
Horizontal Individualism	0.007	[0.007, 0.008]	< .001	0	[0, 0.001]	< .001
Vertical Individualism	0	[-0.001, 0.001]	.616	0	[0, 0]	< .001
Cohesion	0.01	[0.009, 0.01]	< .001	0.001	[0.001, 0.001]	< .001
Hierarchy	-0.008	[-0.008, -0.007]	< .001	0	[-0.001, 0]	< .001
Self Transcendence	0.021	[0.02, 0.023]	< .001	0.005	[0.005, 0.006]	< .001
Conservation	0.007	[0.006, 0.008]	< .001	0.001	[0, 0.001]	< .001
Self Enhancement	0.003	[0.001, 0.005]	.002	-0.001	[-0.002, -0.001]	< .001
Openness to Change	0.015	[0.014, 0.017]	< .001	0.003	[0.002, 0.003]	< .001
Fanaticism	-0.005	[-0.005, -0.005]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.001	[-0.001, 0]	.015	0	[0, 0]	< .001
Unmitigated Self-Interest	-0.004	[-0.005, -0.004]	< .001	0	[0, 0]	< .001
Communal Rationalism	0.007	[0.006, 0.007]	< .001	0	[0, 0.001]	< .001
Subjective Spirituality	0.001	[0.001, 0.002]	< .001	0	[0, 0]	< .001
Inequality Aversion	0.008	[0.007, 0.008]	< .001	0.001	[0.001, 0.001]	< .001
Materialism	0	[0, 0.001]	.320	0	[0, 0]	< .001
Machiavellianism	-0.006	[-0.007, -0.005]	< .001	-0.001	[-0.001, -0.001]	< .001
Prone to Aggression	-0.013	[-0.014, -0.012]	< .001	-0.002	[-0.002, -0.002]	< .001
Ethnonationalism	-0.003	[-0.004, -0.003]	< .001	0	[0, 0]	< .001
Tightness	0.004	[0.003, 0.004]	< .001	0	[0, 0]	< .001
Amoralism	-0.01	[-0.01, -0.009]	< .001	-0.001	[-0.001, -0.001]	< .001
Organizational Religious Activity	-0.008	[-0.01, -0.005]	< .001	-0.003	[-0.005, -0.002]	< .001
Non-organizational Religious	-0.006	[-0.008, -0.004]	< .001	0.002	[0.001, 0.004]	< .001
Activity						
Intrinsic religiosity	-0.001	[-0.002, 0]	.006	0	[0, 0]	.765

Table 9: Associations between Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Civic Multicultural Nationalism	0.019	[0.018, 0.02]	< .001	0.003	[0.003, 0.003]	< .001
InGroup Collectivism	0.005	[0.005, 0.006]	< .001	0.001	[0, 0.001]	< .001
Institutional Collectivism	0.005	[0.005, 0.006]	< .001	0.001	[0.001, 0.001]	< .001
Performance/Achievement	0.004	[0.003, 0.005]	< .001	0.001	[0.001, 0.001]	< .001
Orientation						
Uncertainty Avoidance	0.002	[0.001, 0.003]	< .001	0	[0, 0]	< .001
Gender Egalitarian	0.003	[0.002, 0.004]	< .001	0.001	[0, 0.001]	< .001
Power Distance	0.004	[0.003, 0.004]	< .001	0	[0, 0]	< .001
Future Orientation	0.001	[0, 0.002]	.022	0	[0, 0]	< .001
Assertiveness	0.003	[0.002, 0.005]	< .001	0.001	[0, 0.001]	< .001
Humane Orientation	0	[-0.001, 0.001]	.605	0	[0, 0]	.002
Country level						
Harm	0.01	[0.006, 0.013]	< .001	0.014	[0.01, 0.018]	< .001
Fairness	0.021	[0.018, 0.025]	< .001	0.005	[0.003, 0.007]	< .001
Loyalty	-0.013	[-0.016, -0.01]	< .001	-0.003	[-0.004, -0.001]	.004
Authority	-0.015	[-0.017, -0.012]	< .001	0.003	[0.002, 0.005]	< .001
Purity	-0.019	[-0.023, -0.016]	< .001	0.002	[0, 0.004]	.093
Social Cynicism	-0.003	[-0.006, 0.001]	.115	-0.011	[-0.013, -0.009]	< .001
Reward for Application	0.004	[0.002, 0.006]	< .001	-0.003	[-0.004, -0.003]	< .001
Social Complexity	0.019	[0.017, 0.021]	< .001	0	[0, 0.001]	.607
Fate Control	-0.004	[-0.007, -0.001]	.002	0	[-0.001, 0.002]	.578
Religiosity	-0.003	[-0.005, -0.001]	.008	-0.004	[-0.005, -0.002]	< .001
Horizontal Collectivism	-0.005	[-0.008, -0.002]	.001	0.004	[0.003, 0.006]	< .001
Vertical Collectivism	-0.009	[-0.012, -0.007]	< .001	-0.003	[-0.004, -0.002]	< .001
Horizontal Individualism	-0.004	[-0.007, -0.001]	.009	-0.001	[-0.004, 0.001]	.191
Vertical Individualism	-0.02	[-0.024, -0.017]	< .001	-0.003	[-0.005, 0]	.052
Cohesion	-0.007	[-0.01, -0.004]	< .001	-0.002	[-0.003, -0.001]	.007
Hierarchy	-0.01	[-0.012, -0.009]	< .001	0.002	[0.002, 0.003]	< .001
Self Transcendence	0.032	[0.024, 0.039]	< .001	0.038	[0.028, 0.049]	< .001
Conservation	-0.018	[-0.022, -0.015]	< .001	0.003	[-0.001, 0.006]	.174
Self Enhancement	-0.021	[-0.029, -0.013]	< .001	0.013	[-0.003, 0.028]	.109
Openness to Change	0.018	[0.01, 0.027]	< .001	0.089	[0.075, 0.102]	< .001
Fanaticism	-0.006	[-0.007, -0.006]	< .001	0	[0, 0]	.779
Traditional Religiousness	-0.006	[-0.007, -0.005]	< .001	0	[0, 0]	.477
Unmitigated Self-Interest	-0.009	[-0.011, -0.007]	< .001	0.002	[0.001, 0.002]	< .001
Communal Rationalism	0.002	[0, 0.003]	.133	-0.001	[-0.002, 0.001]	.365
Subjective Spirituality	0.002	[0, 0.004]	.034	0.003	[0.002, 0.004]	< .001
Inequality Aversion	0.005	[0.003, 0.008]	< .001	0.003	[0.002, 0.003]	< .001
Materialism	0.001	[-0.003, 0.005]	.672	-0.005	[-0.009, -0.001]	.013
Machiavellianism	0.006	[0.002, 0.009]	.001	0.014	[0.011, 0.017]	< .001
Prone to Aggression	-0.025	[-0.029, -0.022]	< .001	-0.006	[-0.009, -0.004]	< .001
Ethnonationalism	-0.009	[-0.011, -0.008]	< .001	0	[0, 0.001]	.338
Tightness	-0.003	[-0.007, 0]	.028	0.009	[0.007, 0.011]	< .001
Amoralism	-0.012	[-0.014, -0.01]	< .001	-0.003	[-0.004, -0.002]	< .001
Organizational Religious Activity	-0.03	[-0.034, -0.026]	< .001	-0.024	[-0.028, -0.02]	< .001
Non-organizational Religious	-0.026	[-0.029, -0.022]	< .001	-0.007	[-0.01, -0.004]	< .001
Activity						
Intrinsic religiosity	-0.009	[-0.011, -0.008]	< .001	-0.002	[-0.003, -0.002]	< .001
Civic Multicultural Nationalism	0.024	[0.018, 0.03]	< .001	0.022	[0.015, 0.029]	< .001
InGroup Collectivism	-0.003	[-0.005, 0]	.045	-0.006	[-0.008, -0.005]	< .001

Table 9: Associations between Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Institutional Collectivism	0.019	[0.015, 0.023]	< .001	0.014	[0.011, 0.018]	< .001
Performance/Achievement Orientation	0	[-0.003, 0.003]	.968	0.012	[0.01, 0.015]	< .001
Uncertainty Avoidance	-0.008	[-0.01, -0.005]	< .001	0.007	[0.006, 0.009]	< .001
Gender Egalitarian	0.019	[0.016, 0.022]	< .001	0.008	[0.005, 0.01]	< .001
Power Distance	0	[-0.002, 0.003]	.782	0.008	[0.007, 0.009]	< .001
Future Orientation	-0.003	[-0.006, 0]	.034	0.014	[0.012, 0.016]	< .001
Assertiveness	0.022	[0.017, 0.027]	< .001	0.003	[-0.002, 0.008]	.200
Humane Orientation	-0.01	[-0.013, -0.007]	< .001	0.006	[0.004, 0.008]	< .001

Table 10: Associations between Isms-Mindset CNI and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.016	[0.015, 0.018]	< .001	0.001	[0.001, 0.002]	< .001
Fairness	0.021	[0.019, 0.022]	< .001	0.002	[0.002, 0.002]	< .001
Loyalty	0	[-0.001, 0.002]	.684	0	[0, 0]	.733
Authority	-0.004	[-0.005, -0.002]	< .001	0	[0, 0]	.970
Purity	0.001	[-0.001, 0.002]	.446	0	[0, 0.001]	.004
Social Cynicism	0	[-0.001, 0.002]	.573	0	[-0.001, 0]	< .001
Reward for Application	0.007	[0.006, 0.008]	< .001	0	[0, 0]	.288
Social Complexity	0.008	[0.007, 0.008]	< .001	0	[0, 0]	< .001
Fate Control	-0.006	[-0.007, -0.005]	< .001	-0.001	[-0.001, -0.001]	< .001
Religiosity	-0.001	[-0.002, 0]	.007	0	[0, 0]	< .001
Horizontal Collectivism	0.012	[0.011, 0.013]	< .001	0.001	[0.001, 0.001]	< .001
Vertical Collectivism	0.008	[0.007, 0.01]	< .001	0.001	[0, 0.001]	< .001
Horizontal Individualism	0.008	[0.007, 0.009]	< .001	0	[0, 0.001]	< .001
Vertical Individualism	-0.003	[-0.004, -0.002]	< .001	0	[-0.001, 0]	< .001
Cohesion	0.011	[0.01, 0.012]	< .001	0.001	[0.001, 0.001]	< .001
Hierarchy	-0.012	[-0.013, -0.011]	< .001	0	[0, 0]	.062
Self Transcendence	0.028	[0.026, 0.031]	< .001	0.006	[0.005, 0.007]	< .001
Conservation	0.005	[0.003, 0.007]	< .001	0	[0, 0.001]	.006
Self Enhancement	-0.002	[-0.005, 0]	.107	-0.002	[-0.003, -0.001]	< .001
Openness to Change	0.02	[0.017, 0.022]	< .001	0.003	[0.002, 0.004]	< .001
Fanaticism	-0.012	[-0.012, -0.011]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.003	[-0.004, -0.002]	< .001	0.001	[0.001, 0.001]	< .001
Unmitigated Self-Interest	-0.016	[-0.017, -0.015]	< .001	0	[0, 0]	< .001
Communal Rationalism	0.027	[0.026, 0.028]	< .001	0	[0, 0]	.016
Subjective Spirituality	0	[-0.001, 0.001]	.439	0.001	[0.001, 0.001]	< .001
Inequality Aversion	0.032	[0.031, 0.033]	< .001	0	[-0.001, 0]	< .001
Materialism	-0.002	[-0.003, 0]	.016	0	[0, 0]	.048
Machiavellianism	-0.013	[-0.015, -0.012]	< .001	0.001	[0.001, 0.001]	< .001
Prone to Aggression	-0.018	[-0.02, -0.017]	< .001	-0.002	[-0.002, -0.001]	< .001
Ethnonationalism	-0.009	[-0.01, -0.008]	< .001	0.001	[0, 0.001]	< .001
Tightness	0.006	[0.005, 0.007]	< .001	0.001	[0, 0.001]	< .001
Amoralism	-0.016	[-0.016, -0.015]	< .001	-0.001	[-0.001, -0.001]	< .001
Organizational Religious Activity	-0.012	[-0.015, -0.009]	< .001	-0.002	[-0.003, 0]	.049

Table 10: Associations between Isms-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Non-organizational Religious Activity	-0.009	[-0.011, -0.006]	< .001	0.006	[0.005, 0.008]	< .001
Intrinsic religiosity	-0.003	[-0.004, -0.002]	< .001	0	[0, 0.001]	.048
Civic Multicultural Nationalism	0.043	[0.041, 0.046]	< .001	0.002	[0.001, 0.003]	< .001
InGroup Collectivism	0.006	[0.005, 0.007]	< .001	0	[0, 0.001]	< .001
Institutional Collectivism	0.008	[0.007, 0.009]	< .001	0.001	[0.001, 0.001]	< .001
Performance/Achievement	0.004	[0.002, 0.005]	< .001	0.001	[0.001, 0.001]	< .001
Orientation						
Uncertainty Avoidance	0.002	[0.001, 0.003]	.002	0	[0, 0]	< .001
Gender Egalitarian	0.003	[0.001, 0.004]	< .001	0.001	[0, 0.001]	< .001
Power Distance	0.005	[0.004, 0.006]	< .001	0.001	[0, 0.001]	< .001
Future Orientation	0.001	[-0.001, 0.002]	.446	0	[0, 0]	.007
Assertiveness	0.004	[0.002, 0.005]	< .001	0.001	[0, 0.001]	< .001
Humane Orientation	-0.001	[-0.002, 0]	.027	0	[0, 0]	< .001
Country level						
Harm	0.013	[0.007, 0.018]	< .001	0.016	[0.011, 0.021]	< .001
Fairness	0.025	[0.02, 0.029]	< .001	0.011	[0.008, 0.014]	< .001
Loyalty	-0.017	[-0.021, -0.013]	< .001	0.003	[0, 0.005]	.040
Authority	-0.019	[-0.022, -0.016]	< .001	0.007	[0.005, 0.009]	< .001
Purity	-0.019	[-0.024, -0.014]	< .001	0.004	[0.001, 0.007]	.020
Social Cynicism	-0.012	[-0.017, -0.007]	< .001	-0.004	[-0.007, -0.001]	.018
Reward for Application	-0.006	[-0.009, -0.003]	< .001	-0.002	[-0.003, -0.001]	.002
Social Complexity	0.012	[0.01, 0.015]	< .001	0.002	[0.002, 0.003]	< .001
Fate Control	0.001	[-0.003, 0.004]	.629	0	[-0.002, 0.002]	.957
Religiosity	-0.008	[-0.01, -0.005]	< .001	-0.004	[-0.005, -0.002]	< .001
Horizontal Collectivism	-0.005	[-0.009, 0]	.030	0.007	[0.004, 0.009]	< .001
Vertical Collectivism	-0.009	[-0.012, -0.006]	< .001	0	[-0.001, 0.002]	.589
Horizontal Individualism	-0.009	[-0.013, -0.004]	< .001	0.003	[0, 0.006]	.101
Vertical Individualism	-0.017	[-0.022, -0.012]	< .001	0	[-0.003, 0.004]	.858
Cohesion	-0.009	[-0.013, -0.005]	< .001	0.001	[-0.001, 0.003]	.401
Hierarchy	-0.011	[-0.013, -0.009]	< .001	0.005	[0.004, 0.005]	< .001
Self Transcendence	0.032	[0.021, 0.042]	< .001	0.064	[0.05, 0.078]	< .001
Conservation	-0.02	[-0.025, -0.014]	< .001	0.012	[0.006, 0.017]	< .001
Self Enhancement	-0.034	[-0.045, -0.022]	< .001	0.007	[-0.014, 0.029]	.499
Openness to Change	0.015	[0.003, 0.027]	.012	0.111	[0.092, 0.129]	< .001
Fanaticism	-0.006	[-0.007, -0.005]	< .001	0	[0, 0]	.177
Traditional Religiousness	-0.006	[-0.007, -0.005]	< .001	0.001	[0.001, 0.001]	< .001
Unmitigated Self-Interest	-0.01	[-0.013, -0.008]	< .001	0.001	[0, 0.002]	.006
Communal Rationalism	0.007	[0.004, 0.01]	< .001	0.001	[-0.001, 0.002]	.419
Subjective Spirituality	0.003	[0, 0.005]	.025	0.004	[0.003, 0.004]	< .001
Inequality Aversion	0.013	[0.01, 0.016]	< .001	0.002	[0.001, 0.003]	.001
Materialism	0	[-0.005, 0.006]	.918	-0.002	[-0.008, 0.003]	.358
Machiavellianism	0.013	[0.009, 0.018]	< .001	0.013	[0.009, 0.017]	< .001
Prone to Aggression	-0.02	[-0.025, -0.016]	< .001	0.001	[-0.002, 0.005]	.561
Ethnonationalism	-0.009	[-0.011, -0.007]	< .001	0.001	[0, 0.002]	.002
Tightness	0.006	[0.001, 0.01]	.011	0.005	[0.002, 0.008]	< .001
Amoralism	-0.007	[-0.01, -0.005]	< .001	-0.001	[-0.002, 0]	.109
Organizational Religious Activity	-0.029	[-0.035, -0.024]	< .001	-0.012	[-0.017, -0.006]	< .001
Non-organizational Religious Activity	-0.024	[-0.029, -0.019]	< .001	0.008	[0.004, 0.012]	< .001

Table 10: Associations between Isms-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Intrinsic religiosity	-0.009	[-0.011, -0.006]	< .001	0	[0, 0.001]	.219
Civic Multicultural Nationalism	0.031	[0.023, 0.039]	< .001	0.027	[0.018, 0.036]	< .001
InGroup Collectivism	-0.006	[-0.009, -0.002]	.003	-0.006	[-0.009, -0.003]	< .001
Institutional Collectivism	0.031	[0.026, 0.037]	< .001	0.008	[0.003, 0.013]	.002
Performance/Achievement	-0.001	[-0.006, 0.004]	.638	0.01	[0.007, 0.013]	< .001
Orientation						
Uncertainty Avoidance	-0.006	[-0.01, -0.002]	.004	0.006	[0.004, 0.008]	< .001
Gender Egalitarian	0.016	[0.011, 0.02]	< .001	0.004	[0, 0.007]	.043
Power Distance	0.001	[-0.003, 0.004]	.669	0.01	[0.009, 0.012]	< .001
Future Orientation	-0.002	[-0.006, 0.002]	.285	0.013	[0.01, 0.015]	< .001
Assertiveness	0.021	[0.015, 0.028]	< .001	0.006	[0, 0.013]	.068
Humane Orientation	-0.012	[-0.016, -0.008]	< .001	-0.002	[-0.005, 0.002]	.333

Table 11: Associations between Globe-Mindset CNI and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.013	[0.012, 0.015]	< .001	0.001	[0.001, 0.001]	< .001
Fairness	0.016	[0.015, 0.018]	< .001	0.002	[0.001, 0.002]	< .001
Loyalty	0.001	[-0.001, 0.002]	.280	0	[0, 0]	.396
Authority	-0.004	[-0.005, -0.002]	< .001	0	[-0.001, 0]	.003
Purity	0.001	[-0.001, 0.002]	.291	0	[0, 0]	.466
Social Cynicism	0.005	[0.003, 0.006]	< .001	0	[-0.001, 0]	< .001
Reward for Application	0.01	[0.008, 0.011]	< .001	0	[0, 0]	.238
Social Complexity	0.01	[0.009, 0.011]	< .001	0	[0, 0]	< .001
Fate Control	-0.005	[-0.006, -0.004]	< .001	-0.001	[-0.001, -0.001]	< .001
Religiosity	0	[-0.001, 0.001]	.523	0	[0, 0]	< .001
Horizontal Collectivism	0.007	[0.006, 0.009]	< .001	0	[0, 0]	< .001
Vertical Collectivism	0.005	[0.003, 0.006]	< .001	0	[0, 0]	.169
Horizontal Individualism	0.007	[0.006, 0.008]	< .001	0	[0, 0]	< .001
Vertical Individualism	0	[-0.002, 0.001]	.469	0	[0, 0]	< .001
Cohesion	0.008	[0.007, 0.009]	< .001	0	[0, 0.001]	< .001
Hierarchy	-0.01	[-0.011, -0.009]	< .001	0	[-0.001, 0]	< .001
Self Transcendence	0.021	[0.019, 0.024]	< .001	0.004	[0.003, 0.005]	< .001
Conservation	0.003	[0.001, 0.005]	< .001	0	[-0.001, 0]	.129
Self Enhancement	0.003	[0, 0.006]	.022	-0.001	[-0.002, 0]	.044
Openness to Change	0.016	[0.013, 0.019]	< .001	0.002	[0.001, 0.003]	< .001
Fanaticism	-0.005	[-0.006, -0.005]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.003	[-0.004, -0.002]	< .001	0	[0, 0]	< .001
Unmitigated Self-Interest	-0.005	[-0.006, -0.004]	< .001	0	[0, 0]	< .001
Communal Rationalism	0.007	[0.006, 0.008]	< .001	0	[0, 0]	< .001
Subjective Spirituality	0	[-0.001, 0.001]	.801	0	[0, 0]	< .001
Inequality Aversion	0.009	[0.008, 0.01]	< .001	0.001	[0.001, 0.001]	< .001
Materialism	0.003	[0.002, 0.004]	< .001	0	[0, 0]	.072
Machiavellianism	-0.001	[-0.003, 0]	.025	0	[0, 0]	.812
Prone to Aggression	-0.013	[-0.015, -0.011]	< .001	-0.002	[-0.002, -0.001]	< .001
Ethnonationalism	-0.006	[-0.007, -0.005]	< .001	0	[0, 0]	< .001

Table 11: Associations between Globe-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Tightness	0.015	[0.014, 0.017]	< .001	0	[-0.001, 0]	.028
Amoralism	-0.01	[-0.01, -0.009]	< .001	-0.001	[-0.001, 0]	< .001
Organizational Religious Activity	-0.018	[-0.021, -0.015]	< .001	-0.004	[-0.006, -0.003]	< .001
Non-organizational Religious Activity	-0.014	[-0.017, -0.011]	< .001	0.002	[0, 0.004]	.056
Activity						
Intrinsic religiosity	-0.005	[-0.006, -0.004]	< .001	0	[-0.001, 0]	.004
Civic Multicultural Nationalism	0.018	[0.016, 0.02]	< .001	0.003	[0.002, 0.003]	< .001
InGroup Collectivism	0.023	[0.021, 0.025]	< .001	-0.001	[-0.001, -0.001]	< .001
Institutional Collectivism	0.031	[0.029, 0.032]	< .001	-0.001	[-0.001, 0]	< .001
Performance/Achievement	0.007	[0.005, 0.009]	< .001	0.001	[0.001, 0.002]	< .001
Orientation						
Uncertainty Avoidance	0.01	[0.008, 0.011]	< .001	0.001	[0.001, 0.001]	< .001
Gender Egalitarian	-0.002	[-0.003, 0]	.036	0.002	[0.001, 0.002]	< .001
Power Distance	0.024	[0.023, 0.025]	< .001	0.001	[0, 0.001]	< .001
Future Orientation	-0.002	[-0.004, 0]	.023	0.002	[0.001, 0.002]	< .001
Assertiveness	0.022	[0.02, 0.024]	< .001	0	[0, 0.001]	.162
Humane Orientation	-0.01	[-0.011, -0.008]	< .001	-0.001	[-0.001, 0]	< .001
Country level						
Harm	0.016	[0.011, 0.022]	< .001	0.016	[0.011, 0.021]	< .001
Fairness	0.027	[0.022, 0.031]	< .001	0.012	[0.009, 0.015]	< .001
Loyalty	-0.018	[-0.022, -0.014]	< .001	0.001	[-0.001, 0.004]	.362
Authority	-0.025	[-0.028, -0.022]	< .001	0.005	[0.003, 0.007]	< .001
Purity	-0.023	[-0.028, -0.018]	< .001	0.003	[0, 0.006]	.081
Social Cynicism	-0.001	[-0.005, 0.004]	.792	-0.02	[-0.023, -0.017]	< .001
Reward for Application	0.005	[0.002, 0.008]	< .001	-0.004	[-0.006, -0.003]	< .001
Social Complexity	0.027	[0.024, 0.03]	< .001	-0.002	[-0.002, -0.001]	< .001
Fate Control	-0.004	[-0.007, 0]	.030	-0.003	[-0.004, -0.001]	.006
Religiosity	-0.007	[-0.01, -0.004]	< .001	-0.007	[-0.009, -0.006]	< .001
Horizontal Collectivism	-0.016	[-0.021, -0.012]	< .001	0.004	[0.001, 0.006]	.003
Vertical Collectivism	-0.019	[-0.023, -0.016]	< .001	-0.004	[-0.005, -0.002]	< .001
Horizontal Individualism	-0.007	[-0.011, -0.002]	.003	0.006	[0.003, 0.009]	< .001
Vertical Individualism	-0.025	[-0.03, -0.02]	< .001	-0.001	[-0.005, 0.003]	.563
Cohesion	-0.013	[-0.017, -0.009]	< .001	-0.001	[-0.003, 0.001]	.463
Hierarchy	-0.015	[-0.017, -0.013]	< .001	0.001	[0, 0.002]	.014
Self Transcendence	0.026	[0.016, 0.037]	< .001	0.061	[0.047, 0.076]	< .001
Conservation	-0.031	[-0.036, -0.025]	< .001	-0.004	[-0.009, 0.002]	.178
Self Enhancement	-0.043	[-0.055, -0.032]	< .001	-0.011	[-0.033, 0.011]	.320
Openness to Change	0.015	[0.003, 0.026]	.017	0.111	[0.092, 0.13]	< .001
Fanaticism	-0.008	[-0.01, -0.007]	< .001	0	[0, 0]	.429
Traditional Religiousness	-0.01	[-0.012, -0.009]	< .001	0	[-0.001, 0]	.039
Unmitigated Self-Interest	-0.011	[-0.013, -0.009]	< .001	0.002	[0.001, 0.003]	< .001
Communal Rationalism	-0.002	[-0.005, 0.001]	.169	0	[-0.001, 0.002]	.751
Subjective Spirituality	-0.001	[-0.004, 0.001]	.281	0.003	[0.002, 0.004]	< .001
Inequality Aversion	0.004	[0.001, 0.007]	.008	0.006	[0.005, 0.008]	< .001
Materialism	0.006	[0, 0.012]	.046	-0.011	[-0.017, -0.006]	< .001
Machiavellianism	0.022	[0.017, 0.027]	< .001	0.023	[0.019, 0.027]	< .001
Prone to Aggression	-0.023	[-0.028, -0.018]	< .001	-0.006	[-0.01, -0.003]	< .001
Ethnonationalism	-0.012	[-0.015, -0.01]	< .001	0	[0, 0.001]	.534
Tightness	-0.001	[-0.005, 0.004]	.704	0.019	[0.016, 0.022]	< .001
Amoralism	-0.016	[-0.018, -0.013]	< .001	-0.005	[-0.006, -0.004]	< .001

Table 11: Associations between Globe-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Organizational Religious Activity	-0.051	[-0.056, -0.045]	< .001	-0.035	[-0.04, -0.029]	< .001
Non-organizational Religious Activity	-0.042	[-0.047, -0.037]	< .001	-0.018	[-0.023, -0.014]	< .001
Intrinsic religiosity	-0.017	[-0.019, -0.014]	< .001	-0.004	[-0.005, -0.003]	< .001
Civic Multicultural Nationalism	0.02	[0.012, 0.028]	< .001	0.034	[0.025, 0.043]	< .001
InGroup Collectivism	0.002	[-0.002, 0.006]	.276	-0.003	[-0.006, 0]	.042
Institutional Collectivism	0.021	[0.016, 0.027]	< .001	0.022	[0.017, 0.027]	< .001
Performance/Achievement	-0.006	[-0.01, -0.001]	.019	0.009	[0.006, 0.013]	< .001
Uncertainty Avoidance	-0.009	[-0.013, -0.005]	< .001	0.01	[0.007, 0.012]	< .001
Gender Egalitarian	0.009	[0.004, 0.013]	< .001	0.014	[0.01, 0.018]	< .001
Power Distance	0.008	[0.005, 0.011]	< .001	0.013	[0.011, 0.014]	< .001
Future Orientation	-0.008	[-0.013, -0.004]	< .001	0.018	[0.016, 0.021]	< .001
Assertiveness	0.03	[0.023, 0.036]	< .001	-0.007	[-0.014, 0]	.059
Humane Orientation	-0.014	[-0.018, -0.009]	< .001	0.006	[0.002, 0.009]	< .001

Table 12: Associations between Globe (Extra items) and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.014	[0.012, 0.015]	< .001	0.001	[0.001, 0.001]	< .001
Fairness	0.017	[0.015, 0.018]	< .001	0.002	[0.001, 0.002]	< .001
Loyalty	-0.001	[-0.002, 0.001]	.432	0	[0, 0]	.029
Authority	-0.005	[-0.007, -0.004]	< .001	-0.001	[-0.001, 0]	< .001
Purity	-0.001	[-0.002, 0.001]	.388	0	[0, 0]	.752
Social Cynicism	0.004	[0.002, 0.005]	< .001	-0.001	[-0.001, 0]	< .001
Reward for Application	0.009	[0.008, 0.01]	< .001	0	[0, 0]	< .001
Social Complexity	0.01	[0.009, 0.011]	< .001	0	[0, 0]	< .001
Fate Control	-0.007	[-0.008, -0.006]	< .001	-0.001	[-0.001, -0.001]	< .001
Religiosity	-0.001	[-0.002, 0]	.023	0	[0, 0]	< .001
Horizontal Collectivism	0.008	[0.007, 0.009]	< .001	0	[0, 0]	< .001
Vertical Collectivism	0.004	[0.003, 0.006]	< .001	0	[0, 0]	.635
Horizontal Individualism	0.007	[0.006, 0.008]	< .001	0	[0, 0]	< .001
Vertical Individualism	-0.001	[-0.003, 0]	.034	0	[-0.001, 0]	< .001
Cohesion	0.008	[0.006, 0.009]	< .001	0	[0, 0]	< .001
Hierarchy	-0.012	[-0.013, -0.011]	< .001	0	[-0.001, 0]	< .001
Self Transcendence	0.021	[0.019, 0.024]	< .001	0.004	[0.003, 0.004]	< .001
Conservation	0.001	[0, 0.003]	.121	-0.001	[-0.001, 0]	< .001
Self Enhancement	0.002	[-0.001, 0.004]	.192	-0.001	[-0.002, 0]	.002
Openness to Change	0.016	[0.013, 0.018]	< .001	0.002	[0.001, 0.002]	< .001
Fanaticism	-0.007	[-0.007, -0.006]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.004	[-0.005, -0.003]	< .001	0	[0, 0]	.006
Unmitigated Self-Interest	-0.006	[-0.007, -0.005]	< .001	0	[-0.001, 0]	< .001
Communal Rationalism	0.007	[0.006, 0.008]	< .001	0	[0, 0]	< .001
Subjective Spirituality	-0.001	[-0.002, 0]	.003	0	[0, 0]	.027
Inequality Aversion	0.009	[0.008, 0.01]	< .001	0.001	[0.001, 0.001]	< .001
Materialism	0.002	[0.001, 0.004]	.002	0	[0, 0]	.987

Table 12: Associations between Globe (Extra items) and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Machiavellianism	-0.002	[-0.004, -0.001]	< .001	0	[0, 0]	.588
Prone to Aggression	-0.015	[-0.017, -0.014]	< .001	-0.002	[-0.002, -0.002]	< .001
Ethnonationalism	-0.007	[-0.008, -0.006]	< .001	0	[0, 0]	< .001
Tightness	0.015	[0.013, 0.016]	< .001	0	[-0.001, 0]	.004
Amoralism	-0.01	[-0.011, -0.01]	< .001	-0.001	[-0.001, -0.001]	< .001
Organizational Religious Activity	-0.023	[-0.026, -0.02]	< .001	-0.005	[-0.007, -0.003]	< .001
Non-organizational Religious Activity	-0.018	[-0.021, -0.015]	< .001	0.002	[0, 0.004]	.046
Activity						
Intrinsic religiosity	-0.007	[-0.008, -0.005]	< .001	-0.001	[-0.001, 0]	< .001
Civic Multicultural Nationalism	0.018	[0.016, 0.02]	< .001	0.003	[0.002, 0.003]	< .001
InGroup Collectivism	0.018	[0.016, 0.02]	< .001	-0.001	[-0.002, -0.001]	< .001
Institutional Collectivism	0.028	[0.027, 0.03]	< .001	-0.001	[-0.001, -0.001]	< .001
Performance/Achievement	0.008	[0.006, 0.01]	< .001	0.001	[0.001, 0.002]	< .001
Orientation						
Uncertainty Avoidance	0.009	[0.007, 0.011]	< .001	0.001	[0, 0.001]	< .001
Gender Egalitarian	0.001	[-0.001, 0.002]	.522	0.001	[0.001, 0.002]	< .001
Power Distance	0.02	[0.019, 0.021]	< .001	0.001	[0, 0.001]	< .001
Future Orientation	-0.001	[-0.003, 0.001]	.290	0.001	[0.001, 0.002]	< .001
Assertiveness	0.02	[0.017, 0.022]	< .001	0	[0, 0.001]	.468
Humane Orientation	-0.008	[-0.01, -0.007]	< .001	-0.001	[-0.001, 0]	< .001
Country level						
Harm	0.02	[0.014, 0.025]	< .001	0.015	[0.01, 0.02]	< .001
Fairness	0.028	[0.023, 0.033]	< .001	0.012	[0.009, 0.015]	< .001
Loyalty	-0.029	[-0.033, -0.025]	< .001	0.002	[-0.001, 0.004]	.213
Authority	-0.033	[-0.036, -0.029]	< .001	0.005	[0.003, 0.007]	< .001
Purity	-0.037	[-0.041, -0.032]	< .001	0.005	[0.002, 0.008]	.002
Social Cynicism	-0.008	[-0.013, -0.003]	< .001	-0.024	[-0.028, -0.021]	< .001
Reward for Application	-0.002	[-0.005, 0.001]	.155	-0.006	[-0.007, -0.005]	< .001
Social Complexity	0.025	[0.022, 0.028]	< .001	-0.003	[-0.003, -0.002]	< .001
Fate Control	-0.011	[-0.015, -0.008]	< .001	-0.004	[-0.006, -0.002]	< .001
Religiosity	-0.016	[-0.019, -0.013]	< .001	-0.006	[-0.007, -0.004]	< .001
Horizontal Collectivism	-0.017	[-0.021, -0.012]	< .001	0	[-0.002, 0.003]	.808
Vertical Collectivism	-0.024	[-0.028, -0.021]	< .001	-0.006	[-0.007, -0.004]	< .001
Horizontal Individualism	-0.009	[-0.014, -0.005]	< .001	0.004	[0.001, 0.007]	.017
Vertical Individualism	-0.036	[-0.041, -0.031]	< .001	0	[-0.004, 0.004]	.963
Cohesion	-0.023	[-0.027, -0.02]	< .001	-0.001	[-0.003, 0.001]	.161
Hierarchy	-0.021	[-0.023, -0.019]	< .001	0.001	[0.001, 0.002]	< .001
Self Transcendence	0.024	[0.013, 0.034]	< .001	0.055	[0.04, 0.069]	< .001
Conservation	-0.047	[-0.053, -0.042]	< .001	-0.005	[-0.01, 0]	.057
Self Enhancement	-0.058	[-0.069, -0.047]	< .001	-0.019	[-0.041, 0.002]	.079
Openness to Change	0.01	[-0.002, 0.021]	.115	0.105	[0.086, 0.124]	< .001
Fanaticism	-0.012	[-0.013, -0.011]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.014	[-0.015, -0.013]	< .001	0	[0, 0]	.676
Unmitigated Self-Interest	-0.016	[-0.018, -0.014]	< .001	0.002	[0.001, 0.002]	< .001
Communal Rationalism	-0.002	[-0.005, 0.001]	.184	0.002	[0, 0.004]	.035
Subjective Spirituality	-0.007	[-0.01, -0.005]	< .001	0.004	[0.003, 0.005]	< .001
Inequality Aversion	0.006	[0.003, 0.009]	< .001	0.006	[0.005, 0.007]	< .001
Materialism	0	[-0.006, 0.006]	.960	-0.013	[-0.019, -0.008]	< .001
Machiavellianism	0.024	[0.019, 0.029]	< .001	0.018	[0.014, 0.022]	< .001
Prone to Aggression	-0.034	[-0.039, -0.029]	< .001	-0.005	[-0.009, -0.001]	.006

Table 12: Associations between Globe (Extra items) and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Ethnonationalism	-0.018	[-0.02, -0.016]	< .001	0.001	[0, 0.001]	.026
Tightness	0.001	[-0.003, 0.006]	.558	0.019	[0.016, 0.023]	< .001
Amoralism	-0.013	[-0.015, -0.01]	< .001	-0.005	[-0.006, -0.004]	< .001
Organizational Religious Activity	-0.063	[-0.069, -0.058]	< .001	-0.038	[-0.044, -0.033]	< .001
Non-organizational Religious Activity	-0.053	[-0.058, -0.048]	< .001	-0.019	[-0.023, -0.015]	< .001
Intrinsic religiosity	-0.022	[-0.024, -0.02]	< .001	-0.004	[-0.005, -0.003]	< .001
Civic Multicultural Nationalism	0.019	[0.01, 0.027]	< .001	0.028	[0.019, 0.038]	< .001
InGroup Collectivism	-0.011	[-0.015, -0.008]	< .001	0	[-0.003, 0.003]	.890
Institutional Collectivism	0.021	[0.015, 0.026]	< .001	0.016	[0.011, 0.021]	< .001
Performance/Achievement	-0.005	[-0.01, -0.001]	.024	0.014	[0.01, 0.017]	< .001
Orientation						
Uncertainty Avoidance	-0.008	[-0.012, -0.004]	< .001	0.012	[0.01, 0.014]	< .001
Gender Egalitarian	0.018	[0.014, 0.023]	< .001	0.012	[0.008, 0.016]	< .001
Power Distance	0.005	[0.002, 0.009]	.001	0.013	[0.012, 0.015]	< .001
Future Orientation	-0.004	[-0.008, 0]	.057	0.023	[0.021, 0.025]	< .001
Assertiveness	0.044	[0.037, 0.05]	< .001	-0.006	[-0.013, 0.001]	.070
Humane Orientation	-0.021	[-0.026, -0.017]	< .001	0.001	[-0.002, 0.004]	.417

Table 13: Associations between Fanaticism-Mindset CNI and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.018	[0.016, 0.02]	< .001	0.002	[0.001, 0.002]	< .001
Fairness	0.021	[0.019, 0.023]	< .001	0.002	[0.002, 0.002]	< .001
Loyalty	-0.003	[-0.005, -0.001]	< .001	0	[0, 0]	.851
Authority	-0.006	[-0.007, -0.004]	< .001	0	[0, 0]	.645
Purity	-0.002	[-0.003, 0]	.090	0.001	[0, 0.001]	.001
Social Cynicism	-0.002	[-0.003, 0]	.061	-0.001	[-0.001, 0]	< .001
Reward for Application	0.009	[0.007, 0.01]	< .001	0	[0, 0]	.128
Social Complexity	0.007	[0.006, 0.008]	< .001	0	[0, 0]	< .001
Fate Control	-0.01	[-0.012, -0.009]	< .001	-0.001	[-0.001, -0.001]	< .001
Religiosity	-0.002	[-0.003, 0]	.006	0	[0, 0]	< .001
Horizontal Collectivism	0.014	[0.012, 0.015]	< .001	0.001	[0.001, 0.001]	< .001
Vertical Collectivism	0.008	[0.007, 0.01]	< .001	0.001	[0, 0.001]	< .001
Horizontal Individualism	0.007	[0.005, 0.008]	< .001	0	[0, 0.001]	< .001
Vertical Individualism	-0.008	[-0.01, -0.007]	< .001	-0.001	[-0.001, -0.001]	< .001
Cohesion	0.01	[0.009, 0.012]	< .001	0.001	[0.001, 0.001]	< .001
Hierarchy	-0.016	[-0.017, -0.014]	< .001	0	[0, 0]	.016
Self Transcendence	0.031	[0.028, 0.035]	< .001	0.007	[0.006, 0.008]	< .001
Conservation	0.004	[0.002, 0.006]	< .001	0	[0, 0.001]	.039
Self Enhancement	-0.008	[-0.011, -0.005]	< .001	-0.003	[-0.004, -0.002]	< .001
Openness to Change	0.02	[0.016, 0.023]	< .001	0.003	[0.002, 0.004]	< .001
Fanaticism	-0.019	[-0.019, -0.018]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.003	[-0.004, -0.002]	< .001	0.001	[0.001, 0.001]	< .001
Unmitigated Self-Interest	-0.017	[-0.018, -0.016]	< .001	0	[-0.001, 0]	< .001
Communal Rationalism	0.023	[0.021, 0.024]	< .001	0	[-0.001, 0]	< .001

Table 13: Associations between Fanaticism-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Subjective Spirituality	-0.003	[-0.004, -0.002]	< .001	0.001	[0.001, 0.001]	< .001
Inequality Aversion	0.029	[0.027, 0.03]	< .001	-0.001	[-0.001, -0.001]	< .001
Materialism	-0.006	[-0.007, -0.004]	< .001	-0.001	[-0.001, 0]	< .001
Machiavellianism	-0.024	[-0.026, -0.022]	< .001	0	[0, 0.001]	.006
Prone to Aggression	-0.033	[-0.035, -0.031]	< .001	-0.003	[-0.003, -0.002]	< .001
Ethnonationalism	-0.014	[-0.015, -0.013]	< .001	0.001	[0.001, 0.001]	< .001
Tightness	0.005	[0.004, 0.006]	< .001	0	[0, 0.001]	< .001
Amoralism	-0.019	[-0.02, -0.019]	< .001	-0.001	[-0.001, -0.001]	< .001
Organizational Religious Activity	-0.01	[-0.014, -0.007]	< .001	-0.003	[-0.005, -0.001]	.002
Non-organizational Religious Activity	-0.008	[-0.011, -0.004]	< .001	0.005	[0.003, 0.007]	< .001
Activity						
Intrinsic religiosity	-0.003	[-0.004, -0.001]	< .001	0	[0, 0.001]	.105
Civic Multicultural Nationalism	0.043	[0.04, 0.046]	< .001	0.001	[0, 0.002]	.005
InGroup Collectivism	0.004	[0.003, 0.006]	< .001	0	[0, 0]	.230
Institutional Collectivism	0.007	[0.006, 0.009]	< .001	0.001	[0.001, 0.001]	< .001
Performance/Achievement	0.003	[0.002, 0.005]	< .001	0.001	[0, 0.001]	< .001
Orientation						
Uncertainty Avoidance	0.001	[-0.001, 0.002]	.223	0	[0, 0]	.177
Gender Egalitarian	0.006	[0.005, 0.008]	< .001	0.001	[0.001, 0.001]	< .001
Power Distance	0.005	[0.004, 0.006]	< .001	0.001	[0, 0.001]	< .001
Future Orientation	0.001	[-0.001, 0.002]	.387	0	[0, 0]	.030
Assertiveness	0.006	[0.004, 0.008]	< .001	0.001	[0, 0.001]	< .001
Humane Orientation	-0.002	[-0.003, 0]	.011	0	[0, 0]	< .001
Country level						
Harm	0.022	[0.015, 0.029]	< .001	0.013	[0.007, 0.019]	< .001
Fairness	0.029	[0.023, 0.035]	< .001	0.014	[0.011, 0.018]	< .001
Loyalty	-0.025	[-0.029, -0.02]	< .001	0.001	[-0.002, 0.004]	.504
Authority	-0.026	[-0.03, -0.022]	< .001	0.007	[0.005, 0.01]	< .001
Purity	-0.032	[-0.038, -0.027]	< .001	0.004	[0, 0.008]	.051
Social Cynicism	-0.012	[-0.018, -0.006]	< .001	-0.006	[-0.01, -0.002]	.004
Reward for Application	-0.002	[-0.005, 0.002]	.357	-0.002	[-0.003, -0.001]	.004
Social Complexity	0.015	[0.011, 0.018]	< .001	0	[-0.001, 0.001]	.477
Fate Control	-0.021	[-0.025, -0.017]	< .001	-0.004	[-0.006, -0.002]	< .001
Religiosity	-0.009	[-0.012, -0.005]	< .001	-0.003	[-0.004, -0.001]	.003
Horizontal Collectivism	0.006	[0.001, 0.012]	.023	-0.005	[-0.008, -0.002]	< .001
Vertical Collectivism	-0.012	[-0.016, -0.008]	< .001	-0.005	[-0.007, -0.003]	< .001
Horizontal Individualism	-0.002	[-0.008, 0.003]	.373	0.002	[-0.002, 0.006]	.257
Vertical Individualism	-0.04	[-0.045, -0.034]	< .001	-0.004	[-0.008, 0.001]	.101
Cohesion	-0.015	[-0.02, -0.011]	< .001	0.001	[-0.001, 0.004]	.331
Hierarchy	-0.015	[-0.018, -0.013]	< .001	0.005	[0.004, 0.005]	< .001
Self Transcendence	0.056	[0.043, 0.069]	< .001	0.036	[0.018, 0.053]	< .001
Conservation	-0.032	[-0.038, -0.025]	< .001	0.013	[0.006, 0.019]	< .001
Self Enhancement	-0.057	[-0.071, -0.043]	< .001	0	[-0.027, 0.026]	.970
Openness to Change	0.053	[0.038, 0.067]	< .001	0.077	[0.054, 0.099]	< .001
Fanaticism	-0.012	[-0.014, -0.011]	< .001	0	[0, 0]	.012
Traditional Religiousness	-0.009	[-0.011, -0.008]	< .001	0	[0, 0.001]	.069
Unmitigated Self-Interest	-0.013	[-0.016, -0.011]	< .001	0.001	[0, 0.002]	.009
Communal Rationalism	0.003	[0, 0.007]	.051	-0.001	[-0.003, 0.001]	.258
Subjective Spirituality	-0.008	[-0.011, -0.005]	< .001	0.004	[0.003, 0.005]	< .001
Inequality Aversion	0.014	[0.01, 0.017]	< .001	0.004	[0.002, 0.005]	< .001

Table 13: Associations between Fanaticism-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Materialism	-0.022	[-0.028, -0.015]	< .001	-0.012	[-0.019, -0.006]	< .001
Machiavellianism	-0.002	[-0.008, 0.004]	.511	0.013	[0.008, 0.019]	< .001
Prone to Aggression	-0.043	[-0.048, -0.037]	< .001	0.001	[-0.004, 0.005]	.773
Ethnonationalism	-0.019	[-0.022, -0.017]	< .001	0.002	[0.001, 0.002]	< .001
Tightness	-0.003	[-0.008, 0.003]	.310	0.013	[0.01, 0.017]	< .001
Amoralism	-0.014	[-0.017, -0.011]	< .001	-0.003	[-0.004, -0.001]	< .001
Organizational Religious Activity	-0.038	[-0.045, -0.032]	< .001	-0.034	[-0.041, -0.027]	< .001
Non-organizational Religious Activity	-0.03	[-0.036, -0.023]	< .001	-0.01	[-0.016, -0.005]	< .001
Intrinsic religiosity	-0.013	[-0.015, -0.01]	< .001	-0.003	[-0.004, -0.002]	< .001
Civic Multicultural Nationalism	0.016	[0.006, 0.026]	.001	0.043	[0.032, 0.054]	< .001
InGroup Collectivism	-0.017	[-0.021, -0.013]	< .001	-0.006	[-0.009, -0.003]	< .001
Institutional Collectivism	0.019	[0.012, 0.026]	< .001	0.019	[0.013, 0.025]	< .001
Performance/Achievement	-0.012	[-0.018, -0.006]	< .001	0.024	[0.019, 0.028]	< .001
Uncertainty Avoidance	-0.011	[-0.016, -0.007]	< .001	0.015	[0.013, 0.017]	< .001
Gender Egalitarian	0.037	[0.032, 0.042]	< .001	0.008	[0.003, 0.012]	< .001
Power Distance	0.004	[0, 0.008]	.039	0.011	[0.009, 0.013]	< .001
Future Orientation	0	[-0.005, 0.005]	.875	0.021	[0.018, 0.024]	< .001
Assertiveness	0.048	[0.04, 0.055]	< .001	0.006	[-0.002, 0.014]	.151
Humane Orientation	-0.015	[-0.02, -0.01]	< .001	0.004	[0, 0.008]	.032

Table 14: Associations between Moral Foundations-Mindset CNI and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.028	[0.026, 0.031]	< .001	0.001	[0, 0.001]	< .001
Fairness	0.037	[0.035, 0.039]	< .001	0.002	[0.002, 0.003]	< .001
Loyalty	-0.009	[-0.011, -0.007]	< .001	-0.001	[-0.001, 0]	.019
Authority	-0.019	[-0.021, -0.017]	< .001	0	[-0.001, 0]	.273
Purity	-0.005	[-0.007, -0.003]	< .001	0.001	[0, 0.001]	.018
Social Cynicism	0	[-0.002, 0.001]	.754	0	[-0.001, 0]	< .001
Reward for Application	0.002	[0.001, 0.003]	.001	0	[-0.001, 0]	< .001
Social Complexity	0.008	[0.007, 0.009]	< .001	0	[0, 0]	< .001
Fate Control	-0.009	[-0.01, -0.007]	< .001	-0.001	[-0.001, -0.001]	< .001
Religiosity	-0.004	[-0.005, -0.003]	< .001	0	[-0.001, 0]	< .001
Horizontal Collectivism	0.011	[0.01, 0.013]	< .001	0	[0, 0.001]	< .001
Vertical Collectivism	0.003	[0.002, 0.005]	< .001	0	[0, 0]	.001
Horizontal Individualism	0.007	[0.006, 0.009]	< .001	0	[0, 0]	.353
Vertical Individualism	-0.007	[-0.008, -0.005]	< .001	-0.001	[-0.001, 0]	< .001
Cohesion	0.008	[0.006, 0.009]	< .001	0	[0, 0]	.873
Hierarchy	-0.021	[-0.022, -0.02]	< .001	0	[0, 0]	.014
Self Transcendence	0.031	[0.028, 0.034]	< .001	0.005	[0.004, 0.006]	< .001
Conservation	-0.003	[-0.005, -0.001]	.012	-0.001	[-0.002, -0.001]	< .001
Self Enhancement	-0.007	[-0.01, -0.003]	< .001	-0.003	[-0.004, -0.002]	< .001
Openness to Change	0.021	[0.017, 0.024]	< .001	0.001	[0, 0.002]	.009
Fanaticism	-0.009	[-0.01, -0.009]	< .001	0	[0, 0]	< .001

Table 14: Associations between Moral Foundations-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Traditional Religiousness	-0.007	[-0.008, -0.006]	< .001	0	[0, 0]	.846
Unmitigated Self-Interest	-0.01	[-0.011, -0.009]	< .001	-0.001	[-0.001, -0.001]	< .001
Communal Rationalism	0.009	[0.008, 0.01]	< .001	0.001	[0, 0.001]	< .001
Subjective Spirituality	0	[-0.001, 0.001]	.545	0	[0, 0]	< .001
Inequality Aversion	0.011	[0.01, 0.012]	< .001	0.001	[0.001, 0.001]	< .001
Materialism	-0.002	[-0.003, 0]	.031	0	[-0.001, 0]	< .001
Machiavellianism	-0.006	[-0.007, -0.004]	< .001	0	[0, 0]	.181
Prone to Aggression	-0.027	[-0.029, -0.025]	< .001	-0.001	[-0.002, -0.001]	< .001
Ethnonationalism	-0.011	[-0.012, -0.01]	< .001	0	[-0.001, 0]	< .001
Tightness	0.004	[0.003, 0.006]	< .001	0	[0, 0.001]	< .001
Amoralism	-0.011	[-0.012, -0.01]	< .001	-0.001	[-0.001, -0.001]	< .001
Organizational Religious Activity	-0.032	[-0.036, -0.029]	< .001	-0.009	[-0.011, -0.007]	< .001
Non-organizational Religious Activity	-0.03	[-0.033, -0.027]	< .001	0.001	[-0.001, 0.003]	.339
Intrinsic religiosity						
Intrinsic religiosity	-0.011	[-0.012, -0.01]	< .001	-0.001	[-0.001, -0.001]	< .001
Civic Multicultural Nationalism	0.023	[0.021, 0.026]	< .001	0.004	[0.003, 0.005]	< .001
InGroup Collectivism	0.001	[-0.001, 0.002]	.405	0	[-0.001, 0]	.001
Institutional Collectivism	0.008	[0.006, 0.009]	< .001	0.001	[0.001, 0.001]	< .001
Performance/Achievement	0.001	[-0.001, 0.003]	.348	0	[0, 0]	.201
Orientation						
Uncertainty Avoidance	-0.002	[-0.003, 0]	.046	0	[0, 0]	.055
Gender Egalitarian	0.002	[0, 0.004]	.014	0.001	[0, 0.001]	< .001
Power Distance	0.006	[0.005, 0.007]	< .001	0.001	[0.001, 0.001]	< .001
Future Orientation	-0.002	[-0.004, 0]	.025	0	[0, 0]	.280
Assertiveness	0.006	[0.004, 0.008]	< .001	0.001	[0.001, 0.001]	< .001
Humane Orientation	-0.004	[-0.006, -0.003]	< .001	-0.001	[-0.001, 0]	< .001
Country level						
Harm	0.017	[0.011, 0.024]	< .001	0.03	[0.024, 0.036]	< .001
Fairness	0.029	[0.023, 0.035]	< .001	0.028	[0.024, 0.031]	< .001
Loyalty	-0.055	[-0.059, -0.05]	< .001	-0.003	[-0.006, -0.001]	.021
Authority	-0.057	[-0.061, -0.053]	< .001	0.003	[0, 0.005]	.021
Purity	-0.059	[-0.064, -0.053]	< .001	-0.001	[-0.005, 0.002]	.466
Social Cynicism	-0.007	[-0.013, -0.001]	.021	-0.032	[-0.035, -0.028]	< .001
Reward for Application	-0.023	[-0.026, -0.019]	< .001	-0.01	[-0.012, -0.009]	< .001
Social Complexity	0.028	[0.025, 0.032]	< .001	-0.002	[-0.003, -0.001]	.002
Fate Control	-0.017	[-0.022, -0.013]	< .001	-0.002	[-0.004, 0]	.128
Religiosity	-0.031	[-0.034, -0.027]	< .001	-0.007	[-0.009, -0.005]	< .001
Horizontal Collectivism	-0.036	[-0.041, -0.031]	< .001	0.001	[-0.002, 0.004]	.453
Vertical Collectivism	-0.05	[-0.054, -0.046]	< .001	-0.01	[-0.012, -0.009]	< .001
Horizontal Individualism	-0.026	[-0.031, -0.021]	< .001	0.013	[0.009, 0.016]	< .001
Vertical Individualism	-0.054	[-0.059, -0.048]	< .001	-0.006	[-0.01, -0.002]	.005
Cohesion	-0.051	[-0.055, -0.047]	< .001	-0.007	[-0.009, -0.005]	< .001
Hierarchy	-0.039	[-0.041, -0.036]	< .001	0	[-0.001, 0.001]	.731
Self Transcendence	0.003	[-0.01, 0.016]	.653	0.102	[0.084, 0.119]	< .001
Conservation	-0.088	[-0.094, -0.081]	< .001	-0.02	[-0.026, -0.014]	< .001
Self Enhancement	-0.09	[-0.103, -0.076]	< .001	-0.04	[-0.066, -0.013]	.003
Openness to Change	-0.018	[-0.032, -0.004]	.014	0.149	[0.126, 0.171]	< .001
Fanaticism	-0.018	[-0.019, -0.017]	< .001	0	[0, 0]	.080
Traditional Religiousness	-0.024	[-0.025, -0.022]	< .001	-0.001	[-0.001, 0]	< .001
Unmitigated Self-Interest	-0.032	[-0.034, -0.029]	< .001	0.001	[0, 0.002]	.066

Table 14: Associations between Moral Foundations-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Communal Rationalism	-0.003	[-0.006, 0.001]	.134	0.007	[0.004, 0.009]	< .001
Subjective Spirituality	-0.009	[-0.012, -0.006]	< .001	0.006	[0.005, 0.007]	< .001
Inequality Aversion	0.01	[0.006, 0.014]	< .001	0.012	[0.01, 0.014]	< .001
Materialism	-0.011	[-0.018, -0.004]	.002	-0.03	[-0.037, -0.024]	< .001
Machiavellianism	0.047	[0.041, 0.052]	< .001	0.014	[0.009, 0.019]	< .001
Prone to Aggression	-0.056	[-0.062, -0.05]	< .001	-0.011	[-0.015, -0.006]	< .001
Ethnonationalism	-0.029	[-0.031, -0.026]	< .001	0	[-0.001, 0]	.238
Tightness	0.004	[-0.002, 0.009]	.167	0.018	[0.014, 0.022]	< .001
Amoralism	-0.003	[-0.006, 0]	.065	-0.008	[-0.009, -0.006]	< .001
Organizational Religious Activity	-0.096	[-0.102, -0.089]	< .001	-0.034	[-0.041, -0.027]	< .001
Non-organizational Religious Activity	-0.09	[-0.096, -0.085]	< .001	-0.017	[-0.022, -0.012]	< .001
Intrinsic religiosity	-0.037	[-0.04, -0.035]	< .001	-0.005	[-0.006, -0.004]	< .001
Civic Multicultural Nationalism	0.021	[0.011, 0.031]	< .001	0.053	[0.042, 0.064]	< .001
InGroup Collectivism	-0.032	[-0.037, -0.028]	< .001	-0.007	[-0.01, -0.004]	< .001
Institutional Collectivism	0.037	[0.03, 0.043]	< .001	0.007	[0.001, 0.013]	.017
Performance/Achievement	-0.018	[-0.024, -0.013]	< .001	0.005	[0.001, 0.009]	.015
Uncertainty Avoidance	-0.024	[-0.029, -0.019]	< .001	0.012	[0.009, 0.014]	< .001
Gender Egalitarian	0.018	[0.013, 0.023]	< .001	-0.008	[-0.013, -0.004]	< .001
Power Distance	0.009	[0.005, 0.013]	< .001	0.011	[0.009, 0.013]	< .001
Future Orientation	-0.014	[-0.019, -0.009]	< .001	0.019	[0.016, 0.022]	< .001
Assertiveness	0.067	[0.059, 0.074]	< .001	0.016	[0.008, 0.024]	< .001
Humane Orientation	-0.044	[-0.049, -0.039]	< .001	-0.019	[-0.022, -0.015]	< .001

Table 15: Associations between Social Axioms-Mindset CNI and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.006	[0.005, 0.007]	< .001	0.001	[0.001, 0.001]	< .001
Fairness	0.008	[0.007, 0.009]	< .001	0.002	[0.001, 0.002]	< .001
Loyalty	-0.001	[-0.002, 0.001]	.355	0	[0, 0]	.028
Authority	-0.002	[-0.004, -0.001]	< .001	0	[0, 0]	.382
Purity	0	[-0.001, 0.001]	.792	0	[0, 0.001]	< .001
Social Cynicism	0	[-0.001, 0.002]	.791	-0.001	[-0.002, -0.001]	< .001
Reward for Application	0.026	[0.025, 0.027]	< .001	-0.001	[-0.002, -0.001]	< .001
Social Complexity	0.021	[0.021, 0.022]	< .001	-0.001	[-0.001, -0.001]	< .001
Fate Control	-0.016	[-0.018, -0.015]	< .001	-0.001	[-0.001, -0.001]	< .001
Religiosity	-0.001	[-0.002, 0.001]	.348	-0.001	[-0.001, -0.001]	< .001
Horizontal Collectivism	0.005	[0.004, 0.007]	< .001	0.001	[0.001, 0.001]	< .001
Vertical Collectivism	0.003	[0.002, 0.004]	< .001	0	[0, 0.001]	< .001
Horizontal Individualism	0.003	[0.002, 0.004]	< .001	0	[0, 0.001]	< .001
Vertical Individualism	-0.002	[-0.004, -0.001]	< .001	0	[0, 0]	.001
Cohesion	0.005	[0.004, 0.006]	< .001	0.001	[0.001, 0.001]	< .001
Hierarchy	-0.009	[-0.01, -0.008]	< .001	0	[0, 0]	.001
Self Transcendence	0.015	[0.013, 0.018]	< .001	0.005	[0.005, 0.006]	< .001
Conservation	0.002	[0, 0.004]	.010	0	[0, 0.001]	.016

Table 15: Associations between Social Axioms-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Self Enhancement	0	[-0.002, 0.002]	.946	-0.001	[-0.001, 0]	.123
Openness to Change	0.011	[0.009, 0.013]	< .001	0.003	[0.003, 0.004]	< .001
Fanaticism	-0.005	[-0.005, -0.004]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.003	[-0.004, -0.002]	< .001	0	[0, 0]	.075
Unmitigated Self-Interest	-0.004	[-0.004, -0.003]	< .001	0	[0, 0]	< .001
Communal Rationalism	0.004	[0.004, 0.005]	< .001	0.001	[0, 0.001]	< .001
Subjective Spirituality	0	[0, 0.001]	.199	0	[0, 0]	< .001
Inequality Aversion	0.005	[0.004, 0.005]	< .001	0.001	[0, 0.001]	< .001
Materialism	0	[-0.001, 0.001]	.780	0	[0, 0]	.745
Machiavellianism	-0.005	[-0.007, -0.004]	< .001	0	[0, 0]	< .001
Prone to Aggression	-0.015	[-0.016, -0.013]	< .001	-0.002	[-0.002, -0.001]	< .001
Ethnonationalism	-0.005	[-0.005, -0.004]	< .001	0	[0, 0]	< .001
Tightness	0.003	[0.002, 0.004]	< .001	0	[0, 0.001]	< .001
Amoralism	-0.008	[-0.009, -0.008]	< .001	0	[0, 0]	< .001
Organizational Religious Activity	-0.014	[-0.017, -0.011]	< .001	-0.004	[-0.005, -0.002]	< .001
Non-organizational Religious Activity	-0.012	[-0.015, -0.009]	< .001	0.003	[0.001, 0.005]	< .001
Intrinsic religiosity	-0.004	[-0.005, -0.003]	< .001	0	[0, 0]	.397
Civic Multicultural Nationalism	0.012	[0.011, 0.014]	< .001	0.003	[0.003, 0.004]	< .001
InGroup Collectivism	0.006	[0.005, 0.007]	< .001	0.001	[0.001, 0.001]	< .001
Institutional Collectivism	0.005	[0.004, 0.006]	< .001	0.001	[0.001, 0.001]	< .001
Performance/Achievement	0.004	[0.003, 0.005]	< .001	0.001	[0.001, 0.001]	< .001
Uncertainty Avoidance	0.001	[0, 0.002]	.160	0	[0, 0]	.005
Gender Egalitarian	0.004	[0.003, 0.005]	< .001	0.001	[0.001, 0.001]	< .001
Power Distance	0.003	[0.002, 0.004]	< .001	0	[0, 0.001]	< .001
Future Orientation	0.001	[0, 0.002]	.136	0	[0, 0.001]	< .001
Assertiveness	0.002	[0.001, 0.004]	.002	0.001	[0, 0.001]	< .001
Humane Orientation	0	[-0.001, 0.001]	.805	0	[0, 0]	.812
Harm	0.01	[0.005, 0.016]	< .001	0.014	[0.009, 0.019]	< .001
Fairness	0.017	[0.012, 0.022]	< .001	0.007	[0.004, 0.01]	< .001
Loyalty	-0.011	[-0.015, -0.007]	< .001	-0.001	[-0.004, 0.001]	.362
Authority	-0.015	[-0.018, -0.011]	< .001	0.006	[0.004, 0.008]	< .001
Purity	-0.014	[-0.019, -0.009]	< .001	-0.001	[-0.004, 0.003]	.644
Social Cynicism	-0.001	[-0.006, 0.004]	.606	-0.019	[-0.022, -0.015]	< .001
Reward for Application	0.014	[0.011, 0.016]	< .001	-0.002	[-0.003, -0.001]	< .001
Social Complexity	0.036	[0.033, 0.039]	< .001	-0.001	[-0.002, 0]	.002
Fate Control	-0.005	[-0.009, -0.001]	.006	0.002	[0, 0.004]	.027
Religiosity	0.002	[-0.001, 0.005]	.139	-0.007	[-0.009, -0.006]	< .001
Horizontal Collectivism	-0.012	[-0.016, -0.007]	< .001	0.009	[0.007, 0.012]	< .001
Vertical Collectivism	-0.014	[-0.018, -0.011]	< .001	0.001	[-0.001, 0.002]	.280
Horizontal Individualism	-0.012	[-0.016, -0.007]	< .001	0.004	[0.001, 0.007]	.022
Vertical Individualism	-0.026	[-0.03, -0.021]	< .001	-0.008	[-0.011, -0.004]	< .001
Cohesion	-0.006	[-0.01, -0.003]	< .001	0.004	[0.002, 0.006]	< .001
Hierarchy	-0.011	[-0.013, -0.008]	< .001	0.003	[0.002, 0.004]	< .001
Self Transcendence	0.037	[0.026, 0.048]	< .001	0.072	[0.057, 0.086]	< .001
Conservation	-0.023	[-0.028, -0.017]	< .001	0.008	[0.003, 0.013]	.004
Self Enhancement	-0.027	[-0.038, -0.015]	< .001	0.014	[-0.008, 0.036]	.209
Openness to Change	0.018	[0.006, 0.03]	.003	0.136	[0.118, 0.155]	< .001

Table 15: Associations between Social Axioms-Mindset CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Fanaticism	-0.007	[-0.008, -0.006]	< .001	0	[0, 0]	< .001
Traditional Religiousness	-0.008	[-0.009, -0.007]	< .001	0	[-0.001, 0]	.112
Unmitigated Self-Interest	-0.007	[-0.009, -0.005]	< .001	0.003	[0.002, 0.004]	< .001
Communal Rationalism	-0.003	[-0.006, -0.001]	.015	0.001	[-0.001, 0.003]	.358
Subjective Spirituality	0.009	[0.007, 0.012]	< .001	0.003	[0.002, 0.004]	< .001
Inequality Aversion	-0.002	[-0.005, 0.001]	.270	0.005	[0.003, 0.006]	< .001
Materialism	0.009	[0.003, 0.015]	.002	-0.009	[-0.014, -0.003]	.002
Machiavellianism	0.004	[-0.001, 0.009]	.090	0.022	[0.018, 0.026]	< .001
Prone to Aggression	-0.033	[-0.038, -0.028]	< .001	-0.017	[-0.021, -0.014]	< .001
Ethnonationalism	-0.008	[-0.01, -0.006]	< .001	0	[-0.001, 0]	.188
Tightness	-0.01	[-0.014, -0.005]	< .001	0.007	[0.004, 0.01]	< .001
Amoralism	-0.019	[-0.021, -0.016]	< .001	-0.004	[-0.005, -0.003]	< .001
Organizational Religious Activity	-0.044	[-0.049, -0.038]	< .001	-0.038	[-0.044, -0.033]	< .001
Non-organizational Religious Activity	-0.037	[-0.042, -0.032]	< .001	-0.013	[-0.017, -0.009]	< .001
Intrinsic religiosity	-0.013	[-0.016, -0.011]	< .001	-0.003	[-0.003, -0.002]	< .001
Civic Multicultural Nationalism	0.02	[0.012, 0.029]	< .001	0.042	[0.033, 0.052]	< .001
InGroup Collectivism	0.003	[0, 0.007]	.076	-0.011	[-0.014, -0.009]	< .001
Institutional Collectivism	0.023	[0.017, 0.029]	< .001	0.023	[0.018, 0.028]	< .001
Performance/Achievement	0.003	[-0.002, 0.008]	.256	0.016	[0.013, 0.019]	< .001
Uncertainty Avoidance	-0.014	[-0.018, -0.01]	< .001	0.005	[0.002, 0.007]	< .001
Gender Egalitarian	0.027	[0.022, 0.031]	< .001	0.017	[0.014, 0.021]	< .001
Power Distance	-0.005	[-0.008, -0.001]	.005	0.009	[0.008, 0.011]	< .001
Future Orientation	-0.002	[-0.006, 0.002]	.288	0.015	[0.013, 0.018]	< .001
Assertiveness	0.02	[0.013, 0.026]	< .001	-0.008	[-0.014, -0.001]	.032
Humane Orientation	-0.002	[-0.006, 0.002]	.413	0.016	[0.013, 0.019]	< .001

Table 16: Associations between Personality6 CNI and Mindset variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Harm	0.011	[0.01, 0.013]	< .001	0.001	[0.001, 0.001]	< .001
Fairness	0.013	[0.012, 0.015]	< .001	0.001	[0.001, 0.002]	< .001
Loyalty	0.004	[0.003, 0.006]	< .001	0	[0, 0.001]	.005
Authority	0.003	[0.001, 0.004]	< .001	0	[0, 0.001]	.001
Purity	0.004	[0.003, 0.005]	< .001	0	[0, 0.001]	.001
Social Cynicism	0.001	[-0.001, 0.002]	.432	0	[0, 0]	.008
Reward for Application	0.011	[0.01, 0.012]	< .001	0	[0, 0]	< .001
Social Complexity	0.007	[0.006, 0.008]	< .001	0	[0, 0]	< .001
Fate Control	-0.003	[-0.005, -0.002]	< .001	0	[0, 0]	< .001
Religiosity	0.002	[0.002, 0.003]	< .001	0	[0, 0]	.016
Horizontal Collectivism	0.012	[0.011, 0.013]	< .001	0.001	[0.001, 0.001]	< .001
Vertical Collectivism	0.008	[0.007, 0.009]	< .001	0	[0, 0.001]	< .001
Horizontal Individualism	0.006	[0.005, 0.007]	< .001	0	[0, 0]	< .001
Vertical Individualism	-0.002	[-0.003, -0.001]	< .001	0	[-0.001, 0]	< .001
Cohesion	0.009	[0.008, 0.01]	< .001	0.001	[0.001, 0.001]	< .001

Table 16: Associations between Personality6 CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Hierarchy	-0.007	[-0.008, -0.006]	< .001	0	[0, 0]	< .001
Self Transcendence	0.022	[0.019, 0.024]	< .001	0.005	[0.004, 0.005]	< .001
Conservation	0.008	[0.007, 0.01]	< .001	0.001	[0.001, 0.001]	< .001
Self Enhancement	0.004	[0.001, 0.006]	.004	0	[-0.001, 0]	.310
Openness to Change	0.016	[0.013, 0.018]	< .001	0.002	[0.002, 0.003]	< .001
Fanaticism	-0.005	[-0.006, -0.005]	< .001	0	[0, 0]	< .001
Traditional Religiousness	0	[0, 0.001]	.563	0	[0, 0]	< .001
Unmitigated Self-Interest	-0.004	[-0.004, -0.003]	< .001	0	[0, 0]	< .001
Communal Rationalism	0.006	[0.005, 0.007]	< .001	0	[0, 0]	< .001
Subjective Spirituality	0	[0, 0.001]	.457	0	[0, 0]	< .001
Inequality Aversion	0.006	[0.006, 0.007]	< .001	0	[0, 0]	< .001
Materialism	0.001	[0, 0.003]	.091	-0.001	[-0.001, 0]	.002
Machiavellianism	-0.01	[-0.012, -0.009]	< .001	-0.001	[-0.001, -0.001]	< .001
Prone to Aggression	-0.015	[-0.017, -0.014]	< .001	-0.002	[-0.002, -0.001]	< .001
Ethnonationalism	-0.003	[-0.004, -0.002]	< .001	0	[0, 0]	.132
Tightness	0.004	[0.003, 0.005]	< .001	0	[0, 0]	< .001
Amoralism	-0.016	[-0.017, -0.016]	< .001	-0.001	[-0.001, -0.001]	< .001
Organizational Religious Activity	-0.004	[-0.006, -0.001]	.019	-0.003	[-0.005, -0.001]	< .001
Non-organizational Religious Activity	-0.002	[-0.004, 0.001]	.269	0.001	[-0.001, 0.003]	.373
Activity						
Intrinsic religiosity	0	[-0.001, 0.001]	.571	0	[0, 0]	.366
Civic Multicultural Nationalism	0.014	[0.012, 0.016]	< .001	0.002	[0.002, 0.003]	< .001
InGroup Collectivism	0.008	[0.007, 0.009]	< .001	0.001	[0, 0.001]	< .001
Institutional Collectivism	0.006	[0.005, 0.007]	< .001	0	[0, 0.001]	< .001
Performance/Achievement	0.007	[0.006, 0.008]	< .001	0.001	[0.001, 0.001]	< .001
Orientation						
Uncertainty Avoidance	0.003	[0.001, 0.004]	< .001	0	[0, 0]	.005
Gender Egalitarian	0.006	[0.004, 0.007]	< .001	0.001	[0.001, 0.001]	< .001
Power Distance	0.003	[0.002, 0.004]	< .001	0	[0, 0]	< .001
Future Orientation	0.002	[0, 0.003]	.015	0	[0, 0]	.010
Assertiveness	0.004	[0.002, 0.005]	< .001	0	[0, 0.001]	.027
Humane Orientation	0.002	[0.001, 0.004]	< .001	0	[0, 0]	.146
Country level						
Harm	0.011	[0.006, 0.016]	< .001	0.018	[0.013, 0.023]	< .001
Fairness	0.019	[0.014, 0.023]	< .001	0.006	[0.003, 0.009]	< .001
Loyalty	-0.009	[-0.012, -0.005]	< .001	-0.002	[-0.005, 0]	.071
Authority	-0.011	[-0.015, -0.008]	< .001	0.005	[0.003, 0.007]	< .001
Purity	-0.013	[-0.017, -0.008]	< .001	0.007	[0.004, 0.01]	< .001
Social Cynicism	0.013	[0.008, 0.018]	< .001	-0.019	[-0.022, -0.016]	< .001
Reward for Application	0.017	[0.015, 0.02]	< .001	-0.005	[-0.006, -0.004]	< .001
Social Complexity	0.031	[0.029, 0.034]	< .001	-0.003	[-0.004, -0.003]	< .001
Fate Control	-0.004	[-0.007, 0]	.036	0.004	[0.002, 0.005]	< .001
Religiosity	0.011	[0.008, 0.014]	< .001	-0.002	[-0.004, -0.001]	.003
Horizontal Collectivism	0	[-0.004, 0.004]	.952	0.006	[0.004, 0.008]	< .001
Vertical Collectivism	-0.011	[-0.014, -0.007]	< .001	-0.003	[-0.005, -0.002]	< .001
Horizontal Individualism	-0.003	[-0.007, 0.002]	.211	0.001	[-0.002, 0.004]	.567
Vertical Individualism	-0.028	[-0.033, -0.024]	< .001	-0.001	[-0.005, 0.002]	.426
Cohesion	-0.007	[-0.01, -0.003]	< .001	-0.002	[-0.004, 0]	.017
Hierarchy	-0.012	[-0.014, -0.01]	< .001	0	[-0.001, 0.001]	.717
Self Transcendence	0.044	[0.034, 0.055]	< .001	0.038	[0.024, 0.052]	< .001

Table 16: Associations between Personality6 CNI and Mindset variables (continued)

	Est	95% CI	p	Est	95% CI	p
Conservation	-0.013	[-0.018, -0.008]	< .001	0.008	[0.003, 0.013]	.001
Self Enhancement	-0.022	[-0.033, -0.011]	< .001	0.05	[0.029, 0.07]	< .001
Openness to Change	0.031	[0.02, 0.043]	< .001	0.098	[0.079, 0.116]	< .001
Fanaticism	-0.006	[-0.007, -0.005]	< .001	0	[0, 0]	.064
Traditional Religiousness	-0.006	[-0.007, -0.004]	< .001	0	[-0.001, 0]	.062
Unmitigated Self-Interest	-0.006	[-0.008, -0.003]	< .001	0.004	[0.003, 0.005]	< .001
Communal Rationalism	-0.004	[-0.006, -0.001]	.008	0.003	[0.002, 0.005]	< .001
Subjective Spirituality	-0.002	[-0.005, 0]	.078	0.002	[0.001, 0.003]	< .001
Inequality Aversion	0	[-0.003, 0.003]	.902	0.005	[0.004, 0.007]	< .001
Materialism	0.009	[0.004, 0.015]	.001	-0.002	[-0.007, 0.003]	.517
Machiavellianism	-0.011	[-0.016, -0.006]	< .001	0.021	[0.017, 0.025]	< .001
Prone to Aggression	-0.033	[-0.038, -0.029]	< .001	-0.015	[-0.018, -0.011]	< .001
Ethnonationalism	-0.011	[-0.013, -0.008]	< .001	-0.001	[-0.002, 0]	< .001
Tightness	-0.016	[-0.02, -0.012]	< .001	0.015	[0.012, 0.018]	< .001
Amoralism	-0.021	[-0.023, -0.018]	< .001	-0.005	[-0.006, -0.004]	< .001
Organizational Religious Activity	-0.027	[-0.033, -0.022]	< .001	-0.021	[-0.027, -0.016]	< .001
Non-organizational Religious Activity	-0.028	[-0.033, -0.023]	< .001	-0.023	[-0.028, -0.019]	< .001
Intrinsic religiosity	-0.01	[-0.012, -0.008]	< .001	-0.004	[-0.004, -0.003]	< .001
Civic Multicultural Nationalism	0.014	[0.007, 0.022]	< .001	0.04	[0.031, 0.049]	< .001
InGroup Collectivism	0.008	[0.004, 0.011]	< .001	-0.006	[-0.009, -0.004]	< .001
Institutional Collectivism	0.007	[0.001, 0.012]	.013	0.022	[0.017, 0.027]	< .001
Performance/Achievement	-0.003	[-0.007, 0.002]	.269	0.018	[0.015, 0.021]	< .001
Uncertainty Avoidance	-0.013	[-0.017, -0.009]	< .001	0.009	[0.007, 0.011]	< .001
Gender Egalitarian	0.017	[0.013, 0.021]	< .001	0.012	[0.009, 0.015]	< .001
Power Distance	0.004	[0.001, 0.007]	.020	0.008	[0.007, 0.009]	< .001
Future Orientation	-0.011	[-0.015, -0.007]	< .001	0.015	[0.013, 0.017]	< .001
Assertiveness	0.024	[0.017, 0.03]	< .001	0.007	[0.001, 0.014]	.027
Humane Orientation	0.001	[-0.003, 0.005]	.568	0.019	[0.016, 0.022]	< .001

```

cni.contMod_tbl_details %>%
  filter(CNI_type == "Personality") %>%
  pwalk(function(object_names, caption, ...) {
    cat("\n\n")
    print(
      pluck(all_cni.contMod_effects, object_names) %>%
        cni.ContMod_effects_table(., caption)
    )
    cat("\n\n")
  })

```

Table 17: Associations between Mindset CNI and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p

Individual level

Table 17: Associations between Mindset CNI and Personality variables (continued)

	Est	95% CI	p	Est	95% CI	p
Conscientiousness	0.005	[0.005, 0.006]	< .001	0	[0, 0]	< .001
Honesty	0.008	[0.007, 0.008]	< .001	0.001	[0.001, 0.001]	< .001
Agreeableness	0.002	[0.002, 0.003]	< .001	0	[0, 0]	< .001
Resilience	0.001	[0, 0.002]	.010	0	[0, 0]	.013
Extraversion	0.007	[0.007, 0.008]	< .001	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity	0.004	[0.003, 0.004]	< .001	0	[0, 0]	< .001
Social Self-Regulation	0.043	[0.039, 0.047]	< .001	0.025	[0.023, 0.028]	< .001
Dynamism	0.026	[0.022, 0.031]	< .001	0.017	[0.014, 0.02]	< .001
Country level						
Conscientiousness	0.001	[-0.001, 0.003]	.313	-0.003	[-0.003, -0.002]	< .001
Honesty	0.003	[0, 0.007]	.049	0.006	[0.004, 0.008]	< .001
Agreeableness	-0.014	[-0.018, -0.01]	< .001	-0.009	[-0.013, -0.005]	< .001
Resilience	-0.011	[-0.015, -0.008]	< .001	-0.01	[-0.012, -0.008]	< .001
Extraversion	0.027	[0.024, 0.03]	< .001	-0.002	[-0.004, 0]	.028
Originality/Virtuosity	0.014	[0.011, 0.016]	< .001	0.003	[0.002, 0.004]	< .001
Social Self-Regulation	0.002	[-0.017, 0.02]	.874	-0.23	[-0.31, -0.151]	< .001
Dynamism	0.079	[0.059, 0.099]	< .001	0.174	[0.097, 0.251]	< .001

Table 18: Associations between Isms-Mindset CNI and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Conscientiousness	0.005	[0.004, 0.006]	< .001	0	[0, 0.001]	< .001
Honesty	0.01	[0.009, 0.011]	< .001	0.001	[0.001, 0.001]	< .001
Agreeableness	0.003	[0.001, 0.004]	< .001	0	[0, 0.001]	< .001
Resilience	0	[-0.001, 0.001]	.918	0	[0, 0]	< .001
Extraversion	0.009	[0.008, 0.01]	< .001	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity	0.004	[0.003, 0.005]	< .001	0	[0, 0]	< .001
Social Self-Regulation	0.054	[0.047, 0.06]	< .001	0.026	[0.022, 0.03]	< .001
Dynamism	0.025	[0.018, 0.033]	< .001	0.018	[0.013, 0.023]	< .001
Country level						
Conscientiousness	-0.003	[-0.006, 0.001]	.123	-0.001	[-0.002, 0]	.011
Honesty	0.002	[-0.002, 0.007]	.315	0.01	[0.007, 0.012]	< .001
Agreeableness	-0.008	[-0.013, -0.002]	.005	-0.017	[-0.022, -0.011]	< .001
Resilience	-0.011	[-0.016, -0.007]	< .001	-0.008	[-0.011, -0.005]	< .001
Extraversion	0.025	[0.021, 0.029]	< .001	0.002	[-0.001, 0.005]	.107
Originality/Virtuosity	0.011	[0.007, 0.015]	< .001	0.006	[0.004, 0.008]	< .001
Social Self-Regulation	-0.021	[-0.047, 0.005]	.116	-0.174	[-0.285, -0.064]	.002
Dynamism	0.048	[0.021, 0.076]	< .001	0.241	[0.135, 0.348]	< .001

Table 19: Associations between Globe-Mindset CNI and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Conscientiousness	0.004	[0.003, 0.005]	< .001	0	[0, 0]	< .001
Honesty	0.008	[0.007, 0.009]	< .001	0	[0, 0.001]	< .001
Agreeableness	0	[-0.001, 0.001]	.827	0	[0, 0]	.002
Resilience	-0.001	[-0.002, 0]	.030	0	[0, 0]	.035
Extraversion	0.01	[0.009, 0.011]	< .001	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity	0.005	[0.004, 0.007]	< .001	0	[0, 0.001]	< .001
Social Self-Regulation	0.04	[0.033, 0.047]	< .001	0.015	[0.011, 0.019]	< .001
Dynamism	0.032	[0.024, 0.039]	< .001	0.019	[0.014, 0.023]	< .001
Country level						
Conscientiousness	-0.004	[-0.008, -0.001]	.007	-0.003	[-0.004, -0.002]	< .001
Honesty	0.003	[-0.002, 0.007]	.300	0.004	[0.001, 0.007]	.003
Agreeableness	-0.034	[-0.04, -0.028]	< .001	-0.021	[-0.026, -0.015]	< .001
Resilience	-0.022	[-0.027, -0.018]	< .001	-0.012	[-0.015, -0.009]	< .001
Extraversion	0.032	[0.028, 0.036]	< .001	-0.008	[-0.011, -0.005]	< .001
Originality/Virtuosity	0.015	[0.011, 0.019]	< .001	0.007	[0.005, 0.008]	< .001
Social Self-Regulation	-0.045	[-0.072, -0.019]	< .001	-0.4	[-0.511, -0.288]	< .001
Dynamism	0.056	[0.028, 0.083]	< .001	0.264	[0.156, 0.373]	< .001

Table 20: Associations between Globe (Extra items) and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Conscientiousness	0.004	[0.003, 0.005]	< .001	0	[0, 0]	< .001
Honesty	0.009	[0.008, 0.01]	< .001	0	[0, 0.001]	< .001
Agreeableness	0.001	[0, 0.002]	.076	0	[0, 0]	< .001
Resilience	0	[-0.001, 0.001]	.618	0	[0, 0]	.020
Extraversion	0.011	[0.01, 0.012]	< .001	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity	0.006	[0.005, 0.007]	< .001	0	[0, 0.001]	< .001
Social Self-Regulation	0.045	[0.038, 0.053]	< .001	0.014	[0.01, 0.018]	< .001
Dynamism	0.039	[0.032, 0.047]	< .001	0.02	[0.015, 0.025]	< .001
Country level						
Conscientiousness	-0.006	[-0.01, -0.003]	< .001	-0.005	[-0.006, -0.003]	< .001
Honesty	0.006	[0.001, 0.011]	.013	0.001	[-0.002, 0.004]	.559
Agreeableness	-0.022	[-0.028, -0.017]	< .001	-0.012	[-0.018, -0.007]	< .001
Resilience	-0.019	[-0.024, -0.015]	< .001	-0.015	[-0.018, -0.012]	< .001
Extraversion	0.045	[0.041, 0.049]	< .001	-0.003	[-0.006, 0]	.022
Originality/Virtuosity	0.023	[0.019, 0.027]	< .001	0.006	[0.004, 0.008]	< .001
Social Self-Regulation	-0.042	[-0.069, -0.016]	.002	-0.605	[-0.716, -0.494]	< .001
Dynamism	0.127	[0.099, 0.155]	< .001	0.524	[0.417, 0.631]	< .001

Table 21: Associations between Fanaticism-Mindset CNI and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Conscientiousness	0.006	[0.005, 0.008]	< .001	0.001	[0, 0.001]	< .001
Honesty	0.014	[0.012, 0.015]	< .001	0.001	[0.001, 0.001]	< .001
Agreeableness	0.004	[0.003, 0.006]	< .001	0.001	[0, 0.001]	< .001
Resilience	0	[-0.002, 0.001]	.556	0	[0, 0]	< .001
Extraversion	0.011	[0.01, 0.013]	< .001	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity	0.005	[0.003, 0.006]	< .001	0	[0, 0.001]	< .001
Social Self-Regulation	0.068	[0.06, 0.077]	< .001	0.034	[0.03, 0.039]	< .001
Dynamism	0.033	[0.024, 0.043]	< .001	0.024	[0.018, 0.03]	< .001
Country level						
Conscientiousness	0	[-0.004, 0.004]	.896	-0.002	[-0.003, 0]	.022
Honesty	0.026	[0.02, 0.032]	< .001	-0.002	[-0.005, 0.002]	.329
Agreeableness	-0.003	[-0.009, 0.004]	.440	-0.025	[-0.032, -0.019]	< .001
Resilience	-0.006	[-0.012, -0.001]	.031	-0.012	[-0.016, -0.009]	< .001
Extraversion	0.054	[0.049, 0.059]	< .001	-0.007	[-0.011, -0.004]	< .001
Originality/Virtuosity	0.029	[0.025, 0.034]	< .001	0.003	[0, 0.005]	.019
Social Self-Regulation	0.038	[0.006, 0.07]	.019	-0.461	[-0.596, -0.327]	< .001
Dynamism	0.206	[0.173, 0.24]	< .001	0.279	[0.15, 0.408]	< .001

Table 22: Associations between Moral Foundations-Mindset CNI and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Conscientiousness	0.002	[0.001, 0.003]	< .001	0	[0, 0]	.140
Honesty	0.009	[0.008, 0.011]	< .001	0.001	[0.001, 0.001]	< .001
Agreeableness	0.003	[0.002, 0.004]	< .001	0	[0, 0.001]	< .001
Resilience	-0.002	[-0.003, 0]	.007	0	[0, 0]	.013
Extraversion	0.011	[0.01, 0.013]	< .001	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity	0.006	[0.005, 0.008]	< .001	0.001	[0, 0.001]	< .001
Social Self-Regulation	0.039	[0.031, 0.047]	< .001	0.015	[0.01, 0.019]	< .001
Dynamism	0.033	[0.024, 0.042]	< .001	0.021	[0.015, 0.026]	< .001
Country level						
Conscientiousness	-0.024	[-0.028, -0.02]	< .001	-0.005	[-0.007, -0.004]	< .001
Honesty	0.005	[-0.001, 0.01]	.117	0.014	[0.01, 0.017]	< .001
Agreeableness	-0.012	[-0.019, -0.005]	< .001	-0.005	[-0.012, 0.001]	.109
Resilience	-0.028	[-0.034, -0.023]	< .001	-0.012	[-0.015, -0.008]	< .001
Extraversion	0.062	[0.058, 0.067]	< .001	0.01	[0.007, 0.013]	< .001
Originality/Virtuosity	0.032	[0.027, 0.036]	< .001	0.014	[0.012, 0.016]	< .001
Social Self-Regulation	-0.144	[-0.176, -0.112]	< .001	-0.65	[-0.784, -0.516]	< .001
Dynamism	0.165	[0.131, 0.198]	< .001	1.154	[1.026, 1.282]	< .001

Table 23: Associations between Social Axioms-Mindset CNI and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Conscientiousness	0.004	[0.003, 0.005]	< .001	0	[0, 0]	< .001
Honesty	0.005	[0.004, 0.006]	< .001	0.001	[0, 0.001]	< .001
Agreeableness	0.002	[0.001, 0.003]	< .001	0	[0, 0]	< .001
Resilience	0.001	[0, 0.002]	.117	0	[0, 0]	< .001
Extraversion	0.007	[0.006, 0.008]	< .001	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity	0.003	[0.002, 0.004]	< .001	0	[0, 0.001]	< .001
Social Self-Regulation	0.031	[0.025, 0.037]	< .001	0.024	[0.02, 0.027]	< .001
Dynamism	0.022	[0.016, 0.028]	< .001	0.022	[0.018, 0.027]	< .001
Country level						
Conscientiousness	-0.003	[-0.006, 0]	.069	-0.002	[-0.003, -0.001]	< .001
Honesty	-0.003	[-0.008, 0.002]	.231	0.006	[0.004, 0.009]	< .001
Agreeableness	-0.025	[-0.031, -0.02]	< .001	-0.013	[-0.019, -0.008]	< .001
Resilience	-0.034	[-0.038, -0.029]	< .001	-0.013	[-0.016, -0.01]	< .001
Extraversion	0.032	[0.027, 0.036]	< .001	-0.008	[-0.011, -0.005]	< .001
Originality/Virtuosity	0.009	[0.005, 0.012]	< .001	0.005	[0.003, 0.007]	< .001
Social Self-Regulation	-0.024	[-0.051, 0.002]	.074	-0.152	[-0.265, -0.039]	.008
Dynamism	0.03	[0.002, 0.058]	.036	0.206	[0.098, 0.315]	< .001

Table 24: Associations between Personality6 CNI and Personality variables

	Linear (b)			Quadratic (b^2)		
	Est	95% CI	p	Est	95% CI	p
Individual level						
Conscientiousness	0.028	[0.027, 0.029]	< .001	0	[0, 0]	.112
Honesty	0.033	[0.032, 0.034]	< .001	-0.002	[-0.002, -0.001]	< .001
Agreeableness	0.003	[0.002, 0.004]	< .001	0	[0, 0]	.661
Resilience	0.004	[0.003, 0.005]	< .001	0	[0, 0]	.032
Extraversion	0.031	[0.029, 0.032]	< .001	-0.001	[-0.001, -0.001]	< .001
Originality/Virtuosity	0.016	[0.014, 0.017]	< .001	0	[-0.001, 0]	.010
Social Self-Regulation	0.254	[0.246, 0.262]	< .001	-0.076	[-0.085, -0.066]	< .001
Dynamism	0.159	[0.149, 0.169]	< .001	-0.019	[-0.032, -0.005]	.006
Country level						
Conscientiousness	0.011	[0.008, 0.014]	< .001	0	[-0.001, 0.001]	.840
Honesty	0.023	[0.018, 0.028]	< .001	0.002	[-0.001, 0.005]	.135
Agreeableness	-0.016	[-0.021, -0.011]	< .001	-0.005	[-0.01, 0]	.074
Resilience	-0.008	[-0.013, -0.004]	< .001	-0.001	[-0.004, 0.001]	.339
Extraversion	0.031	[0.027, 0.035]	< .001	-0.008	[-0.011, -0.005]	< .001
Originality/Virtuosity	0.018	[0.015, 0.022]	< .001	0	[-0.002, 0.002]	.796
Social Self-Regulation	0.102	[0.076, 0.127]	< .001	0.026	[-0.081, 0.133]	.635
Dynamism	0.119	[0.093, 0.146]	< .001	0.108	[0.004, 0.212]	.042

4.2.2 Strongest and Weakest effects (CNI)

CNI focused view across personality and mindset traits as predictors (moderators of CNI)

```

strong.weak_effects_table <- function(data, arrange_for = c("estimate"), title) {
  # Validate and get the arrangement variable
  arrange_for <- match.arg(arrange_for) # This ensures arrange_for is one of the options

  base_data <- data %>%
    specify_var_names() %>%
    filter(round(p.value, 3) < 0.001) %>%
    arrange(desc(abs(!!sym(arrange_for)))) %>%
    mutate(
      term_type = case_when(
        term == "z_ctype_response:modtr_score" ~ "Linear",
        term == "z_ctype_response:I(modtr_score^2)" ~ "Quadratic",
        TRUE ~ NA_character_
      )
    )

  # Select 15 highest and 15 lowest estimates
  highest_15 <- base_data %>% head(15)
  lowest_15 <- base_data %>% tail(15) %>%
    arrange(abs(!!sym(arrange_for)))

  # Combine the data using bind_rows with .id argument
  all_data <- bind_rows(list("Highest 15 Estimates" = highest_15,
                             "Lowest 15 Estimates" = lowest_15),
                        .id = "group")

  # Prepare data for table
  df2 <- all_data %>%
    select(-relation) %>%
    mutate(
      p.value = map_chr(p.value, papaja::printp),
      across(where(is.numeric), ~ round(., 3)),
      ci = paste0("[", conf.low, ", ", conf.high, "]"),
      term = ifelse(str_detect(term, "2"), "($b\\textsuperscript{2}$)", "(b)"),
      estimate = as.character(estimate),
      modtr = ifelse(level == "Country",
                     paste0(modtr, footnote_marker_symbol(1, "latex")),
                     paste0(modtr, footnote_marker_symbol(2, "latex"))) %>%
    select(group, modtr, term, estimate, ci, p.value) %>%
    arrange(group) %>%
    select(-group)

  # Create and return the table
  df2 %>%
    kable(booktabs = T,
          escape = F,
          format = "latex",
          longtable = TRUE,
          col.names = c("Moderator", "Term", "Est", "95\\% CI", "$\\textit{p}$" ),
          caption = title) %>%
    group_rows("Strongest 15 Estimates", 1, 15, underline = T, escape = F) %>%
    group_rows("Weakest 15 Estimates", 16, 30, escape = F, underline = T) %>%
    kable_styling(latex_options = c("repeat_header", "longtable")) %>%

```

```

column_spec(1, width = "6.4cm") %>%
  footnote(symbol = c("Country level", "Individual level"),
    symbol_title = "",
    general = "(b) = Linear model, ( $b^2$ ) = Quadratic",
    general_title = "Note:",
    title_format = "italic",
    fixed_small_size = TRUE,
    footnote_as_chunk = FALSE,
    threeparttable = TRUE,
    escape = FALSE)
}

#strong.weak_effects_table(mindsetCNI.mindset_effects, "mindsetCNI.mindset_effects")

cni.contMod_tbl_details <- cni.contMod_tbl_details %>%
  mutate(caption2 = paste0("Strongest and Weakest ", caption),
    #change arrange_var to arrange according to another variable
    arrange_var = "estimate")

cni.contMod_tbl_details %>%
  select(-caption) %>%
  pwalk(function(object_names, arrange_var, caption2, ...) {
    cat("\n\n")
    print(
      pluck(all_cni.contMod_effects, object_names) %>%
        strong.weak_effects_table(., arrange_var, caption2)
    )
    cat("\n\n")
  })

```

Table 25: Strongest and Weakest Associations between Mindset CNI and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change*	(b^2)	0.089	[0.075, 0.102]	< .001
Self Transcendence*	(b^2)	0.038	[0.028, 0.049]	< .001
Self Transcendence*	(b)	0.032	[0.024, 0.039]	< .001
Organizational Religious Activity*	(b)	-0.03	[-0.034, -0.026]	< .001
Non-organizational Religious Activity*	(b)	-0.026	[-0.029, -0.022]	< .001
Prone to Aggression*	(b)	-0.025	[-0.029, -0.022]	< .001
Civic Multicultural Nationalism*	(b)	0.024	[0.018, 0.03]	< .001
Organizational Religious Activity*	(b^2)	-0.024	[-0.028, -0.02]	< .001
Civic Multicultural Nationalism*	(b^2)	0.022	[0.015, 0.029]	< .001
Assertiveness*	(b)	0.022	[0.017, 0.027]	< .001
Self Enhancement*	(b)	-0.021	[-0.029, -0.013]	< .001
Self Transcendence†	(b)	0.021	[0.02, 0.023]	< .001
Fairness*	(b)	0.021	[0.018, 0.025]	< .001
Vertical Individualism*	(b)	-0.02	[-0.024, -0.017]	< .001
Social Complexity*	(b)	0.019	[0.017, 0.021]	< .001
<u>Weakest 15 Estimates</u>				
Traditional Religiousness†	(b^2)	0	[0, 0]	< .001

Table 25: Strongest and Weakest Associations between Mindset CNI and Mindset variables (continued)

Moderator	Term	Est	95% CI	p
Subjective Spirituality [†]	(b^2)	0	[0, 0]	< .001
Social Complexity [†]	(b^2)	0	[0, 0]	< .001
Religiosity [†]	(b^2)	0	[0, 0]	< .001
Ethnonationalism [†]	(b^2)	0	[0, 0]	< .001
Future Orientation [†]	(b^2)	0	[0, 0]	< .001
Materialism [†]	(b^2)	0	[0, 0]	< .001
Fanaticism [†]	(b^2)	0	[0, 0]	< .001
Uncertainty Avoidance [†]	(b^2)	0	[0, 0]	< .001
Purity [†]	(b^2)	0	[0, 0]	< .001
Vertical Individualism [†]	(b^2)	0	[0, 0]	< .001
Hierarchy [†]	(b^2)	0	[-0.001, 0]	< .001
Tightness [†]	(b^2)	0	[0, 0]	< .001
Power Distance [†]	(b^2)	0	[0, 0]	< .001
Unmitigated Self-Interest [†]	(b^2)	0	[0, 0]	< .001

Note:

(b) = Linear model, ($b^{textsuperscript{2}}$) = Quadratic

* Country level

† Individual level

Table 26: Strongest and Weakest Associations between Mindset CNI and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Social Self-Regulation*	(b^2)	-0.23	[-0.31, -0.151]	< .001
Dynamism*	(b^2)	0.174	[0.097, 0.251]	< .001
Dynamism*	(b)	0.079	[0.059, 0.099]	< .001
Social Self-Regulation [†]	(b)	0.043	[0.039, 0.047]	< .001
Extraversion*	(b)	0.027	[0.024, 0.03]	< .001
Dynamism [†]	(b)	0.026	[0.022, 0.031]	< .001
Social Self-Regulation [†]	(b^2)	0.025	[0.023, 0.028]	< .001
Dynamism [†]	(b^2)	0.017	[0.014, 0.02]	< .001
Agreeableness*	(b)	-0.014	[-0.018, -0.01]	< .001
Originality/Virtuosity*	(b)	0.014	[0.011, 0.016]	< .001
Resilience*	(b)	-0.011	[-0.015, -0.008]	< .001
Resilience*	(b^2)	-0.01	[-0.012, -0.008]	< .001
Agreeableness*	(b^2)	-0.009	[-0.013, -0.005]	< .001
Honesty [†]	(b)	0.008	[0.007, 0.008]	< .001
Extraversion [†]	(b)	0.007	[0.007, 0.008]	< .001
<u>Weakest 15 Estimates</u>				
Agreeableness [†]	(b^2)	0	[0, 0]	< .001
Originality/Virtuosity [†]	(b^2)	0	[0, 0]	< .001
Conscientiousness [†]	(b^2)	0	[0, 0]	< .001
Honesty [†]	(b^2)	0.001	[0.001, 0.001]	< .001
Extraversion [†]	(b^2)	0.001	[0.001, 0.001]	< .001
Agreeableness [†]	(b)	0.002	[0.002, 0.003]	< .001
Conscientiousness*	(b^2)	-0.003	[-0.003, -0.002]	< .001
Originality/Virtuosity*	(b^2)	0.003	[0.002, 0.004]	< .001
Originality/Virtuosity [†]	(b)	0.004	[0.003, 0.004]	< .001

Table 26: Strongest and Weakest Associations between Mindset CNI and Personality variables (continued)

Moderator	Term	Est	95% CI	p
Conscientiousness [†]	(b)	0.005	[0.005, 0.006]	< .001
Honesty [*]	(b ²)	0.006	[0.004, 0.008]	< .001
Extraversion [†]	(b)	0.007	[0.007, 0.008]	< .001
Honesty [†]	(b)	0.008	[0.007, 0.008]	< .001
Agreeableness [*]	(b ²)	-0.009	[-0.013, -0.005]	< .001
Resilience [*]	(b ²)	-0.01	[-0.012, -0.008]	< .001

Note:

(b) = Linear model, (*btextsuperscript2*) = Quadratic^{*} Country level[†] Individual level

Table 27: Strongest and Weakest Associations between Isms-Mindset CNI and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change [*]	(b ²)	0.111	[0.092, 0.129]	< .001
Self Transcendence [*]	(b ²)	0.064	[0.05, 0.078]	< .001
Civic Multicultural Nationalism [†]	(b)	0.043	[0.041, 0.046]	< .001
Self Enhancement [*]	(b)	-0.034	[-0.045, -0.022]	< .001
Inequality Aversion [†]	(b)	0.032	[0.031, 0.033]	< .001
Self Transcendence [*]	(b)	0.032	[0.021, 0.042]	< .001
Institutional Collectivism [*]	(b)	0.031	[0.026, 0.037]	< .001
Civic Multicultural Nationalism [*]	(b)	0.031	[0.023, 0.039]	< .001
Organizational Religious Activity [*]	(b)	-0.029	[-0.035, -0.024]	< .001
Self Transcendence [†]	(b)	0.028	[0.026, 0.031]	< .001
Civic Multicultural Nationalism [*]	(b ²)	0.027	[0.018, 0.036]	< .001
Communal Rationalism [†]	(b)	0.027	[0.026, 0.028]	< .001
Fairness [*]	(b)	0.025	[0.02, 0.029]	< .001
Non-organizational Religious Activity [*]	(b)	-0.024	[-0.029, -0.019]	< .001
Assertiveness [*]	(b)	0.021	[0.015, 0.028]	< .001
<u>Weakest 15 Estimates</u>				
Social Complexity [†]	(b ²)	0	[0, 0]	< .001
Religiosity [†]	(b ²)	0	[0, 0]	< .001
Fanaticism [†]	(b ²)	0	[0, 0]	< .001
Uncertainty Avoidance [†]	(b ²)	0	[0, 0]	< .001
Unmitigated Self-Interest [†]	(b ²)	0	[0, 0]	< .001
Vertical Individualism [†]	(b ²)	0	[-0.001, 0]	< .001
Horizontal Individualism [†]	(b ²)	0	[0, 0.001]	< .001
Social Cynicism [†]	(b ²)	0	[-0.001, 0]	< .001
InGroup Collectivism [†]	(b ²)	0	[0, 0.001]	< .001
Inequality Aversion [†]	(b ²)	0	[-0.001, 0]	< .001
Vertical Collectivism [†]	(b ²)	0.001	[0, 0.001]	< .001
Tightness [†]	(b ²)	0.001	[0, 0.001]	< .001
Power Distance [†]	(b ²)	0.001	[0, 0.001]	< .001
Assertiveness [†]	(b ²)	0.001	[0, 0.001]	< .001
Ethnonationalism [†]	(b ²)	0.001	[0, 0.001]	< .001

Table 27: Strongest and Weakest Associations between Isms-Mindset CNI and Mindset variables (continued)

Moderator	Term	Est	95% CI	p
Note:				
(b) = Linear model, (<i>btextsuperscript2</i>) = Quadratic				
* Country level				
† Individual level				

Table 28: Strongest and Weakest Associations between Isms-Mindset CNI and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Dynamism*	(<i>b</i> ²)	0.241	[0.135, 0.348]	< .001
Social Self-Regulation†	(b)	0.054	[0.047, 0.06]	< .001
Social Self-Regulation†	(<i>b</i> ²)	0.026	[0.022, 0.03]	< .001
Dynamism†	(b)	0.025	[0.018, 0.033]	< .001
Extraversion*	(b)	0.025	[0.021, 0.029]	< .001
Dynamism†	(<i>b</i> ²)	0.018	[0.013, 0.023]	< .001
Agreeableness*	(<i>b</i> ²)	-0.017	[-0.022, -0.011]	< .001
Originality/Virtuosity*	(b)	0.011	[0.007, 0.015]	< .001
Resilience*	(b)	-0.011	[-0.016, -0.007]	< .001
Honesty†	(b)	0.01	[0.009, 0.011]	< .001
Honesty*	(<i>b</i> ²)	0.01	[0.007, 0.012]	< .001
Extraversion†	(b)	0.009	[0.008, 0.01]	< .001
Resilience*	(<i>b</i> ²)	-0.008	[-0.011, -0.005]	< .001
Originality/Virtuosity*	(<i>b</i> ²)	0.006	[0.004, 0.008]	< .001
Conscientiousness†	(b)	0.005	[0.004, 0.006]	< .001
<u>Weakest 15 Estimates</u>				
Resilience†	(<i>b</i> ²)	0	[0, 0]	< .001
Originality/Virtuosity†	(<i>b</i> ²)	0	[0, 0]	< .001
Agreeableness†	(<i>b</i> ²)	0	[0, 0.001]	< .001
Conscientiousness†	(<i>b</i> ²)	0	[0, 0.001]	< .001
Extraversion†	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Honesty†	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Agreeableness†	(b)	0.003	[0.001, 0.004]	< .001
Originality/Virtuosity†	(b)	0.004	[0.003, 0.005]	< .001
Conscientiousness†	(b)	0.005	[0.004, 0.006]	< .001
Originality/Virtuosity*	(<i>b</i> ²)	0.006	[0.004, 0.008]	< .001
Resilience*	(<i>b</i> ²)	-0.008	[-0.011, -0.005]	< .001
Extraversion†	(b)	0.009	[0.008, 0.01]	< .001
Honesty*	(<i>b</i> ²)	0.01	[0.007, 0.012]	< .001
Honesty†	(b)	0.01	[0.009, 0.011]	< .001
Resilience*	(b)	-0.011	[-0.016, -0.007]	< .001

Note:
(b) = Linear model, (*btextsuperscript2*) = Quadratic
* Country level
† Individual level

Table 29: Strongest and Weakest Associations between Globe-Mindset CNI and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change [*]	(b^2)	0.111	[0.092, 0.13]	< .001
Self Transcendence [*]	(b^2)	0.061	[0.047, 0.076]	< .001
Organizational Religious Activity [*]	(b)	-0.051	[-0.056, -0.045]	< .001
Self Enhancement [*]	(b)	-0.043	[-0.055, -0.032]	< .001
Non-organizational Religious Activity [*]	(b)	-0.042	[-0.047, -0.037]	< .001
Organizational Religious Activity [*]	(b^2)	-0.035	[-0.04, -0.029]	< .001
Civic Multicultural Nationalism [*]	(b^2)	0.034	[0.025, 0.043]	< .001
Conservation [*]	(b)	-0.031	[-0.036, -0.025]	< .001
Institutional Collectivism [†]	(b)	0.031	[0.029, 0.032]	< .001
Assertiveness [*]	(b)	0.03	[0.023, 0.036]	< .001
Social Complexity [*]	(b)	0.027	[0.024, 0.03]	< .001
Fairness [*]	(b)	0.027	[0.022, 0.031]	< .001
Self Transcendence [*]	(b)	0.026	[0.016, 0.037]	< .001
Vertical Individualism [*]	(b)	-0.025	[-0.03, -0.02]	< .001
Authority [*]	(b)	-0.025	[-0.028, -0.022]	< .001
<u>Weakest 15 Estimates</u>				
Traditional Religiousness [†]	(b^2)	0	[0, 0]	< .001
Social Complexity [†]	(b^2)	0	[0, 0]	< .001
Subjective Spirituality [†]	(b^2)	0	[0, 0]	< .001
Ethnonationalism [†]	(b^2)	0	[0, 0]	< .001
Fanaticism [†]	(b^2)	0	[0, 0]	< .001
Religiosity [†]	(b^2)	0	[0, 0]	< .001
Horizontal Collectivism [†]	(b^2)	0	[0, 0]	< .001
Horizontal Individualism [†]	(b^2)	0	[0, 0]	< .001
Unmitigated Self-Interest [†]	(b^2)	0	[0, 0]	< .001
Communal Rationalism [†]	(b^2)	0	[0, 0]	< .001
Hierarchy [†]	(b^2)	0	[-0.001, 0]	< .001
Social Cynicism [†]	(b^2)	0	[-0.001, 0]	< .001
Cohesion [†]	(b^2)	0	[0, 0.001]	< .001
Amoralism [†]	(b^2)	-0.001	[-0.001, 0]	< .001
Power Distance [†]	(b^2)	0.001	[0, 0.001]	< .001

Note:

(b) = Linear model, ($b^{textsuperscript{2}}$) = Quadratic^{*} Country level[†] Individual level

Table 30: Strongest and Weakest Associations between Globe-Mindset CNI and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Social Self-Regulation [*]	(b^2)	-0.4	[-0.511, -0.288]	< .001
Dynamism [*]	(b^2)	0.264	[0.156, 0.373]	< .001
Dynamism [*]	(b)	0.056	[0.028, 0.083]	< .001
Social Self-Regulation [†]	(b)	0.04	[0.033, 0.047]	< .001
Agreeableness [*]	(b)	-0.034	[-0.04, -0.028]	< .001
Extraversion [*]	(b)	0.032	[0.028, 0.036]	< .001

Table 30: Strongest and Weakest Associations between Globe-Mindset CNI and Personality variables (continued)

Moderator	Term	Est	95% CI	p
Dynamism [†]	(b)	0.032	[0.024, 0.039]	< .001
Resilience [*]	(b)	-0.022	[-0.027, -0.018]	< .001
Agreeableness [*]	(b ²)	-0.021	[-0.026, -0.015]	< .001
Dynamism [†]	(b ²)	0.019	[0.014, 0.023]	< .001
Originality/Virtuosity [*]	(b)	0.015	[0.011, 0.019]	< .001
Social Self-Regulation [†]	(b ²)	0.015	[0.011, 0.019]	< .001
Resilience [*]	(b ²)	-0.012	[-0.015, -0.009]	< .001
Extraversion [†]	(b)	0.01	[0.009, 0.011]	< .001
Extraversion [*]	(b ²)	-0.008	[-0.011, -0.005]	< .001
<u>Weakest 15 Estimates</u>				
Conscientiousness [†]	(b ²)	0	[0, 0]	< .001
Originality/Virtuosity [†]	(b ²)	0	[0, 0.001]	< .001
Honesty [†]	(b ²)	0	[0, 0.001]	< .001
Extraversion [†]	(b ²)	0.001	[0.001, 0.001]	< .001
Conscientiousness [*]	(b ²)	-0.003	[-0.004, -0.002]	< .001
Conscientiousness [†]	(b)	0.004	[0.003, 0.005]	< .001
Originality/Virtuosity [†]	(b)	0.005	[0.004, 0.007]	< .001
Originality/Virtuosity [*]	(b ²)	0.007	[0.005, 0.008]	< .001
Honesty [†]	(b)	0.008	[0.007, 0.009]	< .001
Extraversion [*]	(b ²)	-0.008	[-0.011, -0.005]	< .001
Extraversion [†]	(b)	0.01	[0.009, 0.011]	< .001
Resilience [*]	(b ²)	-0.012	[-0.015, -0.009]	< .001
Social Self-Regulation [†]	(b ²)	0.015	[0.011, 0.019]	< .001
Originality/Virtuosity [*]	(b)	0.015	[0.011, 0.019]	< .001
Dynamism [†]	(b ²)	0.019	[0.014, 0.023]	< .001

Note:

(b) = Linear model, (b²) = Quadratic

* Country level

† Individual level

Table 31: Strongest and Weakest Associations between Globe (Extra items) and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change [*]	(b ²)	0.105	[0.086, 0.124]	< .001
Organizational Religious Activity [*]	(b)	-0.063	[-0.069, -0.058]	< .001
Self Enhancement [*]	(b)	-0.058	[-0.069, -0.047]	< .001
Self Transcendence [*]	(b ²)	0.055	[0.04, 0.069]	< .001
Non-organizational Religious Activity [*]	(b)	-0.053	[-0.058, -0.048]	< .001
Conservation [*]	(b)	-0.047	[-0.053, -0.042]	< .001
Assertiveness [*]	(b)	0.044	[0.037, 0.05]	< .001
Organizational Religious Activity [*]	(b ²)	-0.038	[-0.044, -0.033]	< .001
Purity [*]	(b)	-0.037	[-0.041, -0.032]	< .001
Vertical Individualism [*]	(b)	-0.036	[-0.041, -0.031]	< .001
Prone to Aggression [*]	(b)	-0.034	[-0.039, -0.029]	< .001
Authority [*]	(b)	-0.033	[-0.036, -0.029]	< .001

Table 31: Strongest and Weakest Associations between Globe (Extra items) and Mindset variables (continued)

Moderator	Term	Est	95% CI	p
Loyalty*	(b)	-0.029	[-0.033, -0.025]	< .001
Fairness*	(b)	0.028	[0.023, 0.033]	< .001
Civic Multicultural Nationalism*	(b ²)	0.028	[0.019, 0.038]	< .001
<u>Weakest 15 Estimates</u>				
Social Complexity [†]	(b ²)	0	[0, 0]	< .001
Ethnonationalism [†]	(b ²)	0	[0, 0]	< .001
Horizontal Individualism [†]	(b ²)	0	[0, 0]	< .001
Fanaticism [†]	(b ²)	0	[0, 0]	< .001
Cohesion [†]	(b ²)	0	[0, 0]	< .001
Horizontal Collectivism [†]	(b ²)	0	[0, 0]	< .001
Religiosity [†]	(b ²)	0	[0, 0]	< .001
Vertical Individualism [†]	(b ²)	0	[-0.001, 0]	< .001
Communal Rationalism [†]	(b ²)	0	[0, 0]	< .001
Hierarchy [†]	(b ²)	0	[-0.001, 0]	< .001
Unmitigated Self-Interest [†]	(b ²)	0	[-0.001, 0]	< .001
Intrinsic religiosity [†]	(b ²)	-0.001	[-0.001, 0]	< .001
Authority [†]	(b ²)	-0.001	[-0.001, 0]	< .001
Amoralism [†]	(b ²)	-0.001	[-0.001, -0.001]	< .001
Inequality Aversion [†]	(b ²)	0.001	[0.001, 0.001]	< .001

Note:

(b) = Linear model, (b²) = Quadratic

* Country level

[†] Individual level

Table 32: Strongest and Weakest Associations between Globe (Extra items) and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Social Self-Regulation*	(b ²)	-0.605	[-0.716, -0.494]	< .001
Dynamism*	(b ²)	0.524	[0.417, 0.631]	< .001
Dynamism*	(b)	0.127	[0.099, 0.155]	< .001
Social Self-Regulation [†]	(b)	0.045	[0.038, 0.053]	< .001
Extraversion*	(b)	0.045	[0.041, 0.049]	< .001
Dynamism [†]	(b)	0.039	[0.032, 0.047]	< .001
Originality/Virtuosity*	(b)	0.023	[0.019, 0.027]	< .001
Agreeableness*	(b)	-0.022	[-0.028, -0.017]	< .001
Dynamism [†]	(b ²)	0.02	[0.015, 0.025]	< .001
Resilience*	(b)	-0.019	[-0.024, -0.015]	< .001
Resilience*	(b ²)	-0.015	[-0.018, -0.012]	< .001
Social Self-Regulation [†]	(b ²)	0.014	[0.01, 0.018]	< .001
Agreeableness*	(b ²)	-0.012	[-0.018, -0.007]	< .001
Extraversion [†]	(b)	0.011	[0.01, 0.012]	< .001
Honesty [†]	(b)	0.009	[0.008, 0.01]	< .001
<u>Weakest 15 Estimates</u>				
Conscientiousness [†]	(b ²)	0	[0, 0]	< .001
Originality/Virtuosity [†]	(b ²)	0	[0, 0.001]	< .001
Honesty [†]	(b ²)	0	[0, 0.001]	< .001

Table 32: Strongest and Weakest Associations between Globe (Extra items) and Personality variables (continued)

Moderator	Term	Est	95% CI	p
Extraversion [†]	(b^2)	0.001	[0.001, 0.001]	< .001
Conscientiousness [†]	(b)	0.004	[0.003, 0.005]	< .001
Conscientiousness [*]	(b^2)	-0.005	[-0.006, -0.003]	< .001
Originality/Virtuosity [*]	(b^2)	0.006	[0.004, 0.008]	< .001
Originality/Virtuosity [†]	(b)	0.006	[0.005, 0.007]	< .001
Conscientiousness [*]	(b)	-0.006	[-0.01, -0.003]	< .001
Honesty [†]	(b)	0.009	[0.008, 0.01]	< .001
Extraversion [†]	(b)	0.011	[0.01, 0.012]	< .001
Agreeableness [*]	(b^2)	-0.012	[-0.018, -0.007]	< .001
Social Self-Regulation [†]	(b^2)	0.014	[0.01, 0.018]	< .001
Resilience [*]	(b^2)	-0.015	[-0.018, -0.012]	< .001
Resilience [*]	(b)	-0.019	[-0.024, -0.015]	< .001

Note:

(b) = Linear model, ($b^{textsuperscript{2}}$) = Quadratic

* Country level

† Individual level

Table 33: Strongest and Weakest Associations between Fanaticism-Mindset CNI and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change [*]	(b^2)	0.077	[0.054, 0.099]	< .001
Self Enhancement [*]	(b)	-0.057	[-0.071, -0.043]	< .001
Self Transcendence [*]	(b)	0.056	[0.043, 0.069]	< .001
Openness to Change [*]	(b)	0.053	[0.038, 0.067]	< .001
Assertiveness [*]	(b)	0.048	[0.04, 0.055]	< .001
Civic Multicultural Nationalism [*]	(b^2)	0.043	[0.032, 0.054]	< .001
Civic Multicultural Nationalism [†]	(b)	0.043	[0.04, 0.046]	< .001
Prone to Aggression [*]	(b)	-0.043	[-0.048, -0.037]	< .001
Vertical Individualism [*]	(b)	-0.04	[-0.045, -0.034]	< .001
Organizational Religious Activity [*]	(b)	-0.038	[-0.045, -0.032]	< .001
Gender Egalitarian [*]	(b)	0.037	[0.032, 0.042]	< .001
Self Transcendence [*]	(b^2)	0.036	[0.018, 0.053]	< .001
Organizational Religious Activity [*]	(b^2)	-0.034	[-0.041, -0.027]	< .001
Prone to Aggression [†]	(b)	-0.033	[-0.035, -0.031]	< .001
Purity [*]	(b)	-0.032	[-0.038, -0.027]	< .001
<u>Weakest 15 Estimates</u>				
Social Complexity [†]	(b^2)	0	[0, 0]	< .001
Religiosity [†]	(b^2)	0	[0, 0]	< .001
Communal Rationalism [†]	(b^2)	0	[-0.001, 0]	< .001
Tightness [†]	(b^2)	0	[0, 0.001]	< .001
Unmitigated Self-Interest [†]	(b^2)	0	[-0.001, 0]	< .001
Fanaticism [†]	(b^2)	0	[0, 0]	< .001
Horizontal Individualism [†]	(b^2)	0	[0, 0.001]	< .001
Power Distance [†]	(b^2)	0.001	[0, 0.001]	< .001
Social Cynicism [†]	(b^2)	-0.001	[-0.001, 0]	< .001
Materialism [†]	(b^2)	-0.001	[-0.001, 0]	< .001

Table 33: Strongest and Weakest Associations between Fanaticism-Mindset CNI and Mindset variables (continued)

Moderator	Term	Est	95% CI	p
Vertical Collectivism [†]	(<i>b</i> ²)	0.001	[0, 0.001]	< .001
Institutional Collectivism [†]	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Performance/Achievement Orientation [†]	(<i>b</i> ²)	0.001	[0, 0.001]	< .001
Ethnonationalism [†]	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Vertical Individualism [†]	(<i>b</i> ²)	-0.001	[-0.001, -0.001]	< .001

Note:

(*b*) = Linear model, (*b*²) = Quadratic

* Country level

† Individual level

Table 34: Strongest and Weakest Associations between Fanaticism-Mindset CNI and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Social Self-Regulation*	(<i>b</i> ²)	-0.461	[-0.596, -0.327]	< .001
Dynamism*	(<i>b</i> ²)	0.279	[0.15, 0.408]	< .001
Dynamism*	(<i>b</i>)	0.206	[0.173, 0.24]	< .001
Social Self-Regulation [†]	(<i>b</i>)	0.068	[0.06, 0.077]	< .001
Extraversion*	(<i>b</i>)	0.054	[0.049, 0.059]	< .001
Social Self-Regulation [†]	(<i>b</i> ²)	0.034	[0.03, 0.039]	< .001
Dynamism [†]	(<i>b</i>)	0.033	[0.024, 0.043]	< .001
Originality/Virtuosity*	(<i>b</i>)	0.029	[0.025, 0.034]	< .001
Honesty*	(<i>b</i>)	0.026	[0.02, 0.032]	< .001
Agreeableness*	(<i>b</i> ²)	-0.025	[-0.032, -0.019]	< .001
Dynamism [†]	(<i>b</i> ²)	0.024	[0.018, 0.03]	< .001
Honesty [†]	(<i>b</i>)	0.014	[0.012, 0.015]	< .001
Resilience*	(<i>b</i> ²)	-0.012	[-0.016, -0.009]	< .001
Extraversion [†]	(<i>b</i>)	0.011	[0.01, 0.013]	< .001
Extraversion*	(<i>b</i> ²)	-0.007	[-0.011, -0.004]	< .001
<u>Weakest 15 Estimates</u>				
Resilience [†]	(<i>b</i> ²)	0	[0, 0]	< .001
Originality/Virtuosity [†]	(<i>b</i> ²)	0	[0, 0.001]	< .001
Conscientiousness [†]	(<i>b</i> ²)	0.001	[0, 0.001]	< .001
Agreeableness [†]	(<i>b</i> ²)	0.001	[0, 0.001]	< .001
Extraversion [†]	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Honesty [†]	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Agreeableness [†]	(<i>b</i>)	0.004	[0.003, 0.006]	< .001
Originality/Virtuosity [†]	(<i>b</i>)	0.005	[0.003, 0.006]	< .001
Conscientiousness [†]	(<i>b</i>)	0.006	[0.005, 0.008]	< .001
Extraversion*	(<i>b</i> ²)	-0.007	[-0.011, -0.004]	< .001
Extraversion [†]	(<i>b</i>)	0.011	[0.01, 0.013]	< .001
Resilience*	(<i>b</i> ²)	-0.012	[-0.016, -0.009]	< .001
Honesty [†]	(<i>b</i>)	0.014	[0.012, 0.015]	< .001
Dynamism [†]	(<i>b</i> ²)	0.024	[0.018, 0.03]	< .001
Agreeableness*	(<i>b</i> ²)	-0.025	[-0.032, -0.019]	< .001

Table 34: Strongest and Weakest Associations between Fanaticism-Mindset CNI and Personality variables (continued)

Moderator	Term	Est	95% CI	p
Note:				
(b) = Linear model, (<i>btextsuperscript2</i>) = Quadratic				
* Country level				
† Individual level				

Table 35: Strongest and Weakest Associations between Moral Foundations-Mindset CNI and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change*	(<i>b</i> ²)	0.149	[0.126, 0.171]	< .001
Self Transcendence*	(<i>b</i> ²)	0.102	[0.084, 0.119]	< .001
Organizational Religious Activity*	(b)	-0.096	[-0.102, -0.089]	< .001
Non-organizational Religious Activity*	(b)	-0.09	[-0.096, -0.085]	< .001
Self Enhancement*	(b)	-0.09	[-0.103, -0.076]	< .001
Conservation*	(b)	-0.088	[-0.094, -0.081]	< .001
Assertiveness*	(b)	0.067	[0.059, 0.074]	< .001
Purity*	(b)	-0.059	[-0.064, -0.053]	< .001
Authority*	(b)	-0.057	[-0.061, -0.053]	< .001
Prone to Aggression*	(b)	-0.056	[-0.062, -0.05]	< .001
Loyalty*	(b)	-0.055	[-0.059, -0.05]	< .001
Vertical Individualism*	(b)	-0.054	[-0.059, -0.048]	< .001
Civic Multicultural Nationalism*	(<i>b</i> ²)	0.053	[0.042, 0.064]	< .001
Cohesion*	(b)	-0.051	[-0.055, -0.047]	< .001
Vertical Collectivism*	(b)	-0.05	[-0.054, -0.046]	< .001
<u>Weakest 15 Estimates</u>				
Social Complexity†	(<i>b</i> ²)	0	[0, 0]	< .001
Subjective Spirituality†	(<i>b</i> ²)	0	[0, 0]	< .001
Fanaticism†	(<i>b</i> ²)	0	[0, 0]	< .001
Horizontal Collectivism†	(<i>b</i> ²)	0	[0, 0.001]	< .001
Ethnonationalism†	(<i>b</i> ²)	0	[-0.001, 0]	< .001
Tightness†	(<i>b</i> ²)	0	[0, 0.001]	< .001
Social Cynicism†	(<i>b</i> ²)	0	[-0.001, 0]	< .001
Materialism†	(<i>b</i> ²)	0	[-0.001, 0]	< .001
Religiosity†	(<i>b</i> ²)	0	[-0.001, 0]	< .001
Reward for Application†	(<i>b</i> ²)	0	[-0.001, 0]	< .001
Communal Rationalism†	(<i>b</i> ²)	0.001	[0, 0.001]	< .001
Gender Egalitarian†	(<i>b</i> ²)	0.001	[0, 0.001]	< .001
Amoralism†	(<i>b</i> ²)	-0.001	[-0.001, -0.001]	< .001
Power Distance†	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Vertical Individualism†	(<i>b</i> ²)	-0.001	[-0.001, 0]	< .001

Note:
(b) = Linear model, (*btextsuperscript2*) = Quadratic
* Country level
† Individual level

Table 36: Strongest and Weakest Associations between Moral Foundations-Mindset CNI and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Dynamism [*]	(<i>b</i> ²)	1.154	[1.026, 1.282]	< .001
Social Self-Regulation [*]	(<i>b</i> ²)	-0.65	[-0.784, -0.516]	< .001
Dynamism [*]	(<i>b</i>)	0.165	[0.131, 0.198]	< .001
Social Self-Regulation [*]	(<i>b</i>)	-0.144	[-0.176, -0.112]	< .001
Extraversion [*]	(<i>b</i>)	0.062	[0.058, 0.067]	< .001
Social Self-Regulation [†]	(<i>b</i>)	0.039	[0.031, 0.047]	< .001
Dynamism [†]	(<i>b</i>)	0.033	[0.024, 0.042]	< .001
Originality/Virtuosity [*]	(<i>b</i>)	0.032	[0.027, 0.036]	< .001
Resilience [*]	(<i>b</i>)	-0.028	[-0.034, -0.023]	< .001
Conscientiousness [*]	(<i>b</i>)	-0.024	[-0.028, -0.02]	< .001
Dynamism [†]	(<i>b</i> ²)	0.021	[0.015, 0.026]	< .001
Social Self-Regulation [†]	(<i>b</i> ²)	0.015	[0.01, 0.019]	< .001
Originality/Virtuosity [*]	(<i>b</i> ²)	0.014	[0.012, 0.016]	< .001
Honesty [*]	(<i>b</i> ²)	0.014	[0.01, 0.017]	< .001
Agreeableness [*]	(<i>b</i>)	-0.012	[-0.019, -0.005]	< .001
<u>Weakest 15 Estimates</u>				
Agreeableness [†]	(<i>b</i> ²)	0	[0, 0.001]	< .001
Originality/Virtuosity [†]	(<i>b</i> ²)	0.001	[0, 0.001]	< .001
Honesty [†]	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Extraversion [†]	(<i>b</i> ²)	0.001	[0.001, 0.001]	< .001
Conscientiousness [†]	(<i>b</i>)	0.002	[0.001, 0.003]	< .001
Agreeableness [†]	(<i>b</i>)	0.003	[0.002, 0.004]	< .001
Conscientiousness [*]	(<i>b</i> ²)	-0.005	[-0.007, -0.004]	< .001
Originality/Virtuosity [†]	(<i>b</i>)	0.006	[0.005, 0.008]	< .001
Honesty [†]	(<i>b</i>)	0.009	[0.008, 0.011]	< .001
Extraversion [*]	(<i>b</i> ²)	0.01	[0.007, 0.013]	< .001
Extraversion [†]	(<i>b</i>)	0.011	[0.01, 0.013]	< .001
Resilience [*]	(<i>b</i> ²)	-0.012	[-0.015, -0.008]	< .001
Agreeableness [*]	(<i>b</i>)	-0.012	[-0.019, -0.005]	< .001
Honesty [*]	(<i>b</i> ²)	0.014	[0.01, 0.017]	< .001
Originality/Virtuosity [*]	(<i>b</i> ²)	0.014	[0.012, 0.016]	< .001

Note:

(*b*) = Linear model, (*b*²) = Quadratic

^{*} Country level

[†] Individual level

Table 37: Strongest and Weakest Associations between Social Axioms-Mindset CNI and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change [*]	(<i>b</i> ²)	0.136	[0.118, 0.155]	< .001
Self Transcendence [*]	(<i>b</i> ²)	0.072	[0.057, 0.086]	< .001
Organizational Religious Activity [*]	(<i>b</i>)	-0.044	[-0.049, -0.038]	< .001
Civic Multicultural Nationalism [*]	(<i>b</i> ²)	0.042	[0.033, 0.052]	< .001
Organizational Religious Activity [*]	(<i>b</i> ²)	-0.038	[-0.044, -0.033]	< .001

Table 37: Strongest and Weakest Associations between Social Axioms-Mindset CNI and Mindset variables (continued)

Moderator	Term	Est	95% CI	p
Self Transcendence*	(b)	0.037	[0.026, 0.048]	< .001
Non-organizational Religious Activity*	(b)	-0.037	[-0.042, -0.032]	< .001
Social Complexity*	(b)	0.036	[0.033, 0.039]	< .001
Prone to Aggression*	(b)	-0.033	[-0.038, -0.028]	< .001
Self Enhancement*	(b)	-0.027	[-0.038, -0.015]	< .001
Gender Egalitarian*	(b)	0.027	[0.022, 0.031]	< .001
Reward for Application†	(b)	0.026	[0.025, 0.027]	< .001
Vertical Individualism*	(b)	-0.026	[-0.03, -0.021]	< .001
Institutional Collectivism*	(b)	0.023	[0.017, 0.029]	< .001
Conservation*	(b)	-0.023	[-0.028, -0.017]	< .001
<u>Weakest 15 Estimates</u>				
Ethnonationalism†	(b ²)	0	[0, 0]	< .001
Subjective Spirituality†	(b ²)	0	[0, 0]	< .001
Fanaticism†	(b ²)	0	[0, 0]	< .001
Unmitigated Self-Interest†	(b ²)	0	[0, 0]	< .001
Machiavellianism†	(b ²)	0	[0, 0]	< .001
Vertical Collectivism†	(b ²)	0	[0, 0.001]	< .001
Tightness†	(b ²)	0	[0, 0.001]	< .001
Future Orientation†	(b ²)	0	[0, 0.001]	< .001
Power Distance†	(b ²)	0	[0, 0.001]	< .001
Purity†	(b ²)	0	[0, 0.001]	< .001
Amoralism†	(b ²)	0	[0, 0]	< .001
Horizontal Individualism†	(b ²)	0	[0, 0.001]	< .001
Communal Rationalism†	(b ²)	0.001	[0, 0.001]	< .001
Inequality Aversion†	(b ²)	0.001	[0, 0.001]	< .001
Assertiveness†	(b ²)	0.001	[0, 0.001]	< .001

Note:

(b) = Linear model, (*btextsuperscript2*) = Quadratic

* Country level

† Individual level

Table 38: Strongest and Weakest Associations between Social Axioms-Mindset CNI and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Dynamism*	(b ²)	0.206	[0.098, 0.315]	< .001
Resilience*	(b)	-0.034	[-0.038, -0.029]	< .001
Extraversion*	(b)	0.032	[0.027, 0.036]	< .001
Social Self-Regulation†	(b)	0.031	[0.025, 0.037]	< .001
Agreeableness*	(b)	-0.025	[-0.031, -0.02]	< .001
Social Self-Regulation†	(b ²)	0.024	[0.02, 0.027]	< .001
Dynamism†	(b ²)	0.022	[0.018, 0.027]	< .001
Dynamism†	(b)	0.022	[0.016, 0.028]	< .001
Agreeableness*	(b ²)	-0.013	[-0.019, -0.008]	< .001
Resilience*	(b ²)	-0.013	[-0.016, -0.01]	< .001
Originality/Virtuosity*	(b)	0.009	[0.005, 0.012]	< .001
Extraversion*	(b ²)	-0.008	[-0.011, -0.005]	< .001

Table 38: Strongest and Weakest Associations between Social Axioms-Mindset CNI and Personality variables (continued)

Moderator	Term	Est	95% CI	p
Extraversion [†]	(b)	0.007	[0.006, 0.008]	< .001
Honesty [*]	(b ²)	0.006	[0.004, 0.009]	< .001
Honesty [†]	(b)	0.005	[0.004, 0.006]	< .001
<u>Weakest 15 Estimates</u>				
Resilience [†]	(b ²)	0	[0, 0]	< .001
Agreeableness [†]	(b ²)	0	[0, 0]	< .001
Conscientiousness [†]	(b ²)	0	[0, 0]	< .001
Originality/Virtuosity [†]	(b ²)	0	[0, 0.001]	< .001
Honesty [†]	(b ²)	0.001	[0, 0.001]	< .001
Extraversion [†]	(b ²)	0.001	[0.001, 0.001]	< .001
Originality/Virtuosity [†]	(b)	0.003	[0.002, 0.004]	< .001
Conscientiousness [†]	(b)	0.004	[0.003, 0.005]	< .001
Originality/Virtuosity [*]	(b ²)	0.005	[0.003, 0.007]	< .001
Honesty [†]	(b)	0.005	[0.004, 0.006]	< .001
Honesty [*]	(b ²)	0.006	[0.004, 0.009]	< .001
Extraversion [†]	(b)	0.007	[0.006, 0.008]	< .001
Extraversion [*]	(b ²)	-0.008	[-0.011, -0.005]	< .001
Originality/Virtuosity [*]	(b)	0.009	[0.005, 0.012]	< .001
Resilience [*]	(b ²)	-0.013	[-0.016, -0.01]	< .001

Note:

(b) = Linear model, (*btextsuperscript2*) = Quadratic

* Country level

† Individual level

Table 39: Strongest and Weakest Associations between Personality6 CNI and Mindset variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Openness to Change [*]	(b ²)	0.098	[0.079, 0.116]	< .001
Self Enhancement [*]	(b ²)	0.05	[0.029, 0.07]	< .001
Self Transcendence [*]	(b)	0.044	[0.034, 0.055]	< .001
Civic Multicultural Nationalism [*]	(b ²)	0.04	[0.031, 0.049]	< .001
Self Transcendence [*]	(b ²)	0.038	[0.024, 0.052]	< .001
Prone to Aggression [*]	(b)	-0.033	[-0.038, -0.029]	< .001
Social Complexity [*]	(b)	0.031	[0.029, 0.034]	< .001
Openness to Change [*]	(b)	0.031	[0.02, 0.043]	< .001
Vertical Individualism [*]	(b)	-0.028	[-0.033, -0.024]	< .001
Non-organizational Religious Activity [*]	(b)	-0.028	[-0.033, -0.023]	< .001
Organizational Religious Activity [*]	(b)	-0.027	[-0.033, -0.022]	< .001
Assertiveness [*]	(b)	0.024	[0.017, 0.03]	< .001
Non-organizational Religious Activity [*]	(b ²)	-0.023	[-0.028, -0.019]	< .001
Institutional Collectivism [*]	(b ²)	0.022	[0.017, 0.027]	< .001
Self Enhancement [*]	(b)	-0.022	[-0.033, -0.011]	< .001
<u>Weakest 15 Estimates</u>				
Social Complexity [†]	(b ²)	0	[0, 0]	< .001
Subjective Spirituality [†]	(b ²)	0	[0, 0]	< .001

Table 39: Strongest and Weakest Associations between Personality6 CNI and Mindset variables (continued)

Moderator	Term	Est	95% CI	p
Traditional Religiousness [†]	(b^2)	0	[0, 0]	< .001
Fanaticism [†]	(b^2)	0	[0, 0]	< .001
Tightness [†]	(b^2)	0	[0, 0]	< .001
Power Distance [†]	(b^2)	0	[0, 0]	< .001
Unmitigated Self-Interest [†]	(b^2)	0	[0, 0]	< .001
Hierarchy [†]	(b^2)	0	[0, 0]	< .001
Horizontal Individualism [†]	(b^2)	0	[0, 0]	< .001
Fate Control [†]	(b^2)	0	[0, 0]	< .001
Reward for Application [†]	(b^2)	0	[0, 0]	< .001
Vertical Individualism [†]	(b^2)	0	[-0.001, 0]	< .001
Communal Rationalism [†]	(b^2)	0	[0, 0]	< .001
Inequality Aversion [†]	(b^2)	0	[0, 0]	< .001
Institutional Collectivism [†]	(b^2)	0	[0, 0.001]	< .001

Note:

(b) = Linear model, ($b^{textsuperscript{2}}$) = Quadratic

* Country level

† Individual level

Table 40: Strongest and Weakest Associations between Personality6 CNI and Personality variables

Moderator	Term	Est	95% CI	p
<u>Strongest 15 Estimates</u>				
Social Self-Regulation [†]	(b)	0.254	[0.246, 0.262]	< .001
Dynamism [†]	(b)	0.159	[0.149, 0.169]	< .001
Dynamism*	(b)	0.119	[0.093, 0.146]	< .001
Social Self-Regulation*	(b)	0.102	[0.076, 0.127]	< .001
Social Self-Regulation [†]	(b^2)	-0.076	[-0.085, -0.066]	< .001
Honesty [†]	(b)	0.033	[0.032, 0.034]	< .001
Extraversion*	(b)	0.031	[0.027, 0.035]	< .001
Extraversion [†]	(b)	0.031	[0.029, 0.032]	< .001
Conscientiousness [†]	(b)	0.028	[0.027, 0.029]	< .001
Honesty*	(b)	0.023	[0.018, 0.028]	< .001
Originality/Virtuosity*	(b)	0.018	[0.015, 0.022]	< .001
Agreeableness*	(b)	-0.016	[-0.021, -0.011]	< .001
Originality/Virtuosity [†]	(b)	0.016	[0.014, 0.017]	< .001
Conscientiousness*	(b)	0.011	[0.008, 0.014]	< .001
Resilience*	(b)	-0.008	[-0.013, -0.004]	< .001
<u>Weakest 15 Estimates</u>				
Extraversion [†]	(b^2)	-0.001	[-0.001, -0.001]	< .001
Honesty [†]	(b^2)	-0.002	[-0.002, -0.001]	< .001
Agreeableness [†]	(b)	0.003	[0.002, 0.004]	< .001
Resilience [†]	(b)	0.004	[0.003, 0.005]	< .001
Extraversion*	(b^2)	-0.008	[-0.011, -0.005]	< .001
Resilience*	(b)	-0.008	[-0.013, -0.004]	< .001
Conscientiousness*	(b)	0.011	[0.008, 0.014]	< .001
Originality/Virtuosity [†]	(b)	0.016	[0.014, 0.017]	< .001
Agreeableness*	(b)	-0.016	[-0.021, -0.011]	< .001
Originality/Virtuosity*	(b)	0.018	[0.015, 0.022]	< .001

Table 40: Strongest and Weakest Associations between Personality6 CNI and Personality variables (continued)

Moderator	Term	Est	95% CI	p
Honesty*	(b)	0.023	[0.018, 0.028]	< .001
Conscientiousness [†]	(b)	0.028	[0.027, 0.029]	< .001
Extraversion [†]	(b)	0.031	[0.029, 0.032]	< .001
Extraversion*	(b)	0.031	[0.027, 0.035]	< .001
Honesty [†]	(b)	0.033	[0.032, 0.034]	< .001

Note:

(b) = Linear model, (*b*textsuperscript2) = Quadratic

* Country level

[†] Individual level

4.2.3 Overall trends

Similar to study 1, three categories of tables are presented here: 1. Strongest moderators: Effects that significantly enhance or diminish the impact of cultural normativity. 2. Weakest moderators: Effects that, while statistically significant, have minimal influence on cultural normativity. 3. Non-significant effects: Factors that show no statistically significant moderation of cultural normativity.

```
overall_table <- function(table_type, arrange_for = c("estimate"), title) {

  arrange_for <- match.arg(arrange_for) # This ensures arrange_for is one of the options

  table <- bind_rows(all_cni.contMod_effects, .id = "model")

  if (table_type == "overall highest") {
    table <- table %>%
      filter(p.value < .001) %>%
      arrange(desc(abs(!!sym(arrange_for))))
  } else if (table_type == "overall weakest") {
    table <- table %>%
      filter(p.value < .001) %>%
      arrange(abs(!!sym(arrange_for)))
  } else if (table_type == "overall n.s") {
    table <- table %>%
      filter(p.value >= .05) %>%
      arrange(abs(!!sym(arrange_for)))
  } else {
    stop("Invalid table_type. Choose 'overall highest', 'overall lowest', or 'overall n.s'")
  }

  final_table <- table %>%
    head(20) %>%
    specify_var_names() %>%
    separate(model, c("CNI_type", "Moderator_type"), sep = "\\.") %>%
    mutate(
      CNI_type = str_remove(CNI_type, "CNI"),
      CNI_type = str_to_sentence(CNI_type),
      CNI_type = str_replace_all(CNI_type, c(
        "cni" = " CNI",
        "ism" = "Isms",

```

```

    "Fantc" = "Fanaticism",
    "Globe" = "GLOBE",
    "Pty6" = "Personality 6",
    "ex" = "-Extra",
    "Mf" = "Moral Foundations",
    "Socax" = "Social Axioms")),
  Moderator_type = if_else(Moderator_type == "pty_effects", "Personality", "Mindset"),
  p.value = map_chr(p.value, papaja::printp),
  across(where(is.numeric), ~ round(., 3)),
  ci = paste0("[", conf.low, ", ", conf.high, "]"),
  term = ifelse(str_detect(term, "2"), "($b\\textsuperscript{2}$)", "(b)"),
  estimate = as.character(estimate),
  modtr = paste0(modtr, " (", Moderator_type, ")"),
  modtr = ifelse(level == "Country",
    paste0(modtr, footnote_marker_symbol(1, "latex")),
    paste0(modtr, footnote_marker_symbol(2, "latex"))
  ),
  CNI_type = str_replace(CNI_type, "CNI", "") %>%
select(CNI_type, modtr, term, estimate, ci, p.value)

final_table %>%
  kable(booktabs = T,
    escape = F,
    format = "latex",
    col.names = c("CNI type", "Moderator", "Term", "Est", "95%% CI", "$\\textit{p}$"),
    caption = title,
    longtable = T) %>%
  kable_styling(latex_options = c("repeat_header", "longtable")) %>%
  footnote(symbol = c("Country", "Individual"),
    symbol_title = "",
    general = "(b) = Linear model, ($b\\textsuperscript{2}$) = Quadratic model",
    general_title = "Note:",
    title_format = "italic",
    fixed_small_size = TRUE,
    footnote_as_chunk = FALSE,
    threeparttable = TRUE,
    escape = FALSE)
}

overall_table_details <- tibble(
  table_type = c("overall highest", "overall weakest", "overall n.s")) %>%
  mutate(title = paste0("Variables with ", word(table_type, 2), " effect sizes with each CNI type"),
    #change arrange_var to arrange according to another variable
    arrange_var = "estimate")

```

Table 41: Variables with highest effect sizes with each CNI type

CNI type	Moderator	Term	Est	95% CI	p
Moral Foundations	Dynamism (Personality)*	(b^2)	1.154	[1.026, 1.282]	< .001
Moral Foundations	Social Self-Regulation (Personality)*	(b^2)	-0.65	[-0.784, -0.516]	< .001
GLOBE-Extra	Social Self-Regulation (Personality)*	(b^2)	-0.605	[-0.716, -0.494]	< .001
GLOBE-Extra	Dynamism (Personality)*	(b^2)	0.524	[0.417, 0.631]	< .001

Table 41: Variables with highest effect sizes with each CNI type (continued)

CNI type	Moderator	Term	Est	95% CI	p
Fanaticism	Social Self-Regulation (Personality)*	(b^2)	-0.461	[-0.596, -0.327]	< .001
GLOBE	Social Self-Regulation (Personality)*	(b^2)	-0.4	[-0.511, -0.288]	< .001
Fanaticism	Dynamism (Personality)*	(b^2)	0.279	[0.15, 0.408]	< .001
GLOBE	Dynamism (Personality)*	(b^2)	0.264	[0.156, 0.373]	< .001
Personality 6	Social Self-Regulation (Personality) [†]	(b)	0.254	[0.246, 0.262]	< .001
Isms	Dynamism (Personality)*	(b^2)	0.241	[0.135, 0.348]	< .001
Mindset	Social Self-Regulation (Personality)*	(b^2)	-0.23	[-0.31, -0.151]	< .001
Social Axioms	Dynamism (Personality)*	(b^2)	0.206	[0.098, 0.315]	< .001
Fanaticism	Dynamism (Personality)*	(b)	0.206	[0.173, 0.24]	< .001
Mindset	Dynamism (Personality)*	(b^2)	0.174	[0.097, 0.251]	< .001
Moral Foundations	Dynamism (Personality)*	(b)	0.165	[0.131, 0.198]	< .001
Personality 6	Dynamism (Personality) [†]	(b)	0.159	[0.149, 0.169]	< .001
Moral Foundations	Openness to Change (Mindset)*	(b^2)	0.149	[0.126, 0.171]	< .001
Moral Foundations	Social Self-Regulation (Personality)*	(b)	-0.144	[-0.176, -0.112]	< .001
Social Axioms	Openness to Change (Mindset)*	(b^2)	0.136	[0.118, 0.155]	< .001
GLOBE-Extra	Dynamism (Personality)*	(b)	0.127	[0.099, 0.155]	< .001

Note:

(b) = Linear model, ($b^{textsuperscript{2}}$) = Quadratic model

* Country

[†] Individual

Table 42: Variables with weakest effect sizes with each CNI type

CNI type	Moderator	Term	Est	95% CI	p
GLOBE	Traditional Religiousness (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Mindset	Traditional Religiousness (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Mindset	Subjective Spirituality (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Fanaticism	Social Complexity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Mindset	Reward for Application (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Personality 6	Social Complexity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
GLOBE-Extra	Social Complexity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Personality 6	Subjective Spirituality (Mindset) [†]	(b^2)	0	[0, 0]	< .001
GLOBE	Social Complexity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
GLOBE	Subjective Spirituality (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Personality 6	Traditional Religiousness (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Moral Foundations	Social Complexity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Isms	Social Complexity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Mindset	Social Complexity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
GLOBE-Extra	Reward for Application (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Mindset	Religiosity (Mindset) [†]	(b^2)	0	[0, 0]	< .001
GLOBE-Extra	Conscientiousness (Personality) [†]	(b^2)	0	[0, 0]	< .001
Personality 6	Fanaticism (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Personality 6	Tightness (Mindset) [†]	(b^2)	0	[0, 0]	< .001
Social Axioms	Ethnonationalism (Mindset) [†]	(b^2)	0	[0, 0]	< .001

Table 42: Variables with weakest effect sizes with each CNI type (continued)

CNI type	Moderator	Term	Est	95% CI	p
----------	-----------	------	-----	--------	---

Note:

(b) = Linear model, (*btextsuperscript2*) = Quadratic model

* Country

† Individual

Table 43: Variables with n.s effect sizes with each CNI type

CNI type	Moderator	Term	Est	95% CI	p
GLOBE-Extra	Materialism (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.987
Isms	Authority (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.970
Mindset	Authority (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.931
Moral Foundations	Traditional Religiousness (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.846
Moral Foundations	Cohesion (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.873
Social Axioms	Humane Orientation (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.812
Mindset	Fanaticism (Mindset)*	(<i>b</i> ²)	0	[0, 0]	.779
GLOBE	Machiavellianism (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.812
Mindset	Intrinsic religiosity (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.765
Fanaticism	Loyalty (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.851
Social Axioms	Materialism (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.745
GLOBE-Extra	Vertical Collectivism (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.635
GLOBE-Extra	Purity (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.752
Isms	Loyalty (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.733
Social Axioms	Traditional Religiousness (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.075
GLOBE-Extra	Machiavellianism (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.588
Isms	Fate Control (Mindset)*	(<i>b</i> ²)	0	[-0.002, 0.002]	.957
Personality 6	Agreeableness (Personality) [†]	(<i>b</i> ²)	0	[0, 0]	.661
Isms	Resilience (Personality) [†]	(<i>b</i>)	0	[-0.001, 0.001]	.918
Isms	Reward for Application (Mindset) [†]	(<i>b</i> ²)	0	[0, 0]	.288

Note:

(b) = Linear model, (*btextsuperscript2*) = Quadratic model

* Country

† Individual

4.2.4 Results section: Overall trends across levels and relationship type

```
# resolves the issue of comparing apples vs. oranges
overall_groupwise_table <- function(level_type, arrange_for = c("estimate"), relation_type) {
  arrange_for <- match.arg(arrange_for) # This ensures arrange_for is one of the options

  table <- bind_rows(all_cni.contMod_effects, .id = "model") %>% #View()
  mutate(term = case_when(
    term == "z_ctype_response:modtr_score" ~ "Linear",
    term == "z_ctype_response:I(modtr_score^2)" ~ "Quadratic",
    TRUE ~ term # keep original value if no match
  ))

  #level_type = "Individual";relation_type = "Linear"; arrange_for = "estimate"
```

```

final_table <- table %>%
  filter(level == level_type & term == relation_type ) %>%
  filter(p.value<.001) %>%
  #arrange(desc(abs(estimate))) %>%
  arrange(desc(abs(!sym(arrange_for)))) %>%
  head(20) %>%
  specify_var_names() %>%
  separate(model, c("CNI_type", "Moderator_type"), sep = "\\.") %>%
  mutate(
    CNI_type = str_remove(CNI_type, "CNI"),
    CNI_type = str_to_sentence(CNI_type),
    CNI_type = str_replace_all(CNI_type, c(
      "cni" = " CNI",
      "Ism" = "Isms",
      "Fantc" = "Fanaticism",
      "Globe" = "GLOBE",
      "Pty6" = "Personality 6",
      "ex" = "-Extra",
      "Mf" = "Moral Foundations",
      "Socax" = "Social Axioms")),
    Moderator_type = if_else(str_detect(Moderator_type, "pty"), "Personality", "Mindset"),
    p.value = map_chr(p.value, papaja::printp),
    across(where(is.numeric), ~ round(., 3)),
    ci = paste0("[", conf.low, ", ", conf.high, "]"),
    modtr = ifelse(Moderator_type == "Personality",
      paste0(modtr, footnote_marker_symbol(1, "latex")),
      paste0(modtr, footnote_marker_symbol(2, "latex"))),
    estimate = as.character(estimate),
    CNI_type = str_replace(CNI_type, "CNI", "") %>%
  select(CNI_type, modtr, estimate, ci, p.value)

final_table %>%
  kable(booktabs = T,
    escape = F,
    format = "latex",
    col.names = c("CNI type", "Moderator trait", "Est", "95\\% CI", "$\\textit{p}$"),
    caption = paste0("Strongest ", relation_type, " associations with CNI at the ", level_type),
    kable_styling() %>%
  footnote(symbol = c("Personality trait", "Mindset trait"),
    symbol_title = "",
    general_title = "Note:",
    title_format = "italic",
    fixed_small_size = TRUE,
    footnote_as_chunk = FALSE,
    threeparttable = TRUE)

}

overall_groupwise_table_details <- tibble(
  level_type = rep(c("Individual", "Country"), each = 2),
  relation_type = rep(c("Linear", "Quadratic"), 2),
  #change arrange_var to arrange according to another variable

```

Table 44: Strongest Linear associations with CNI at the Individual level

CNI type	Moderator trait	Est	95% CI	p
Personality 6	Social Self-Regulation [*]	0.254	[0.246, 0.262]	< .001
Personality 6	Dynamism [*]	0.159	[0.149, 0.169]	< .001
Fanaticism	Social Self-Regulation [*]	0.068	[0.06, 0.077]	< .001
Isms	Social Self-Regulation [*]	0.054	[0.047, 0.06]	< .001
GLOBE-Extra	Social Self-Regulation [*]	0.045	[0.038, 0.053]	< .001
Isms	Civic Multicultural Nationalism [†]	0.043	[0.041, 0.046]	< .001
Mindset	Social Self-Regulation [*]	0.043	[0.039, 0.047]	< .001
Fanaticism	Civic Multicultural Nationalism [†]	0.043	[0.04, 0.046]	< .001
GLOBE	Social Self-Regulation [*]	0.04	[0.033, 0.047]	< .001
GLOBE-Extra	Dynamism [*]	0.039	[0.032, 0.047]	< .001
Moral Foundations	Social Self-Regulation [*]	0.039	[0.031, 0.047]	< .001
Moral Foundations	Fairness [†]	0.037	[0.035, 0.039]	< .001
Fanaticism	Dynamism [*]	0.033	[0.024, 0.043]	< .001
Fanaticism	Prone to Aggression [†]	-0.033	[-0.035, -0.031]	< .001
Personality 6	Honesty [*]	0.033	[0.032, 0.034]	< .001
Moral Foundations	Dynamism [*]	0.033	[0.024, 0.042]	< .001
Moral Foundations	Organizational Religious Activity [†]	-0.032	[-0.036, -0.029]	< .001
Isms	Inequality Aversion [†]	0.032	[0.031, 0.033]	< .001
GLOBE	Dynamism [*]	0.032	[0.024, 0.039]	< .001
Fanaticism	Self Transcendence [†]	0.031	[0.028, 0.035]	< .001

^{*} Personality trait

[†] Mindset trait

```
arrange_var = "estimate")
```

```
#overall_groupwise_table("Individual", "estimate", "Quadratic")
```

4.3 Plots

4.3.1 Strongest and Weakest effects (CNI)

Given that there are 210 (individual level scale scores = 52, country level scale scores = 52 and their linear and quadratic associations with CNI types) effect sizes to evaluate in total for each CNI type, it was necessary to identify a starting point. In order to assess the continuous moderator effects for each of the CNI types, the highest 15 and lowest 15 associations (across linear and quadratic) were considered.

```
plot_high.low_mindset_effects <- function(data) {
  base_data <- data %>%
    specify_var_names() %>%
    filter(round(p.value, 3) < 0.05) %>% #distinct(level) %>%
    arrange(desc(abs(estimate))) %>%
    mutate(
      color = case_when(
        str_detect(variable, "MFQ") ~ "Moral Foundations",
        str_detect(variable, "SocAx") ~ "Social Axioms",
```

Table 45: Strongest Quadratic associations with CNI at the Individual level

CNI type	Moderator trait	Est	95% CI	p
Personality 6	Social Self-Regulation*	-0.076	[-0.085, -0.066]	< .001
Fanaticism	Social Self-Regulation*	0.034	[0.03, 0.039]	< .001
Isms	Social Self-Regulation*	0.026	[0.022, 0.03]	< .001
Mindset	Social Self-Regulation*	0.025	[0.023, 0.028]	< .001
Fanaticism	Dynamism*	0.024	[0.018, 0.03]	< .001
Social Axioms	Social Self-Regulation*	0.024	[0.02, 0.027]	< .001
Social Axioms	Dynamism*	0.022	[0.018, 0.027]	< .001
Moral Foundations	Dynamism*	0.021	[0.015, 0.026]	< .001
GLOBE-Extra	Dynamism*	0.02	[0.015, 0.025]	< .001
GLOBE	Dynamism*	0.019	[0.014, 0.023]	< .001
Isms	Dynamism*	0.018	[0.013, 0.023]	< .001
Mindset	Dynamism*	0.017	[0.014, 0.02]	< .001
GLOBE	Social Self-Regulation*	0.015	[0.011, 0.019]	< .001
Moral Foundations	Social Self-Regulation*	0.015	[0.01, 0.019]	< .001
GLOBE-Extra	Social Self-Regulation*	0.014	[0.01, 0.018]	< .001
Moral Foundations	Organizational Religious Activity [†]	-0.009	[-0.011, -0.007]	< .001
Fanaticism	Self Transcendence [†]	0.007	[0.006, 0.008]	< .001
Isms	Non-organizational Religious Activity [†]	0.006	[0.005, 0.008]	< .001
Isms	Self Transcendence [†]	0.006	[0.005, 0.007]	< .001
Social Axioms	Self Transcendence [†]	0.005	[0.005, 0.006]	< .001

* Personality trait

[†] Mindset trait

Table 46: Strongest Linear associations with CNI at the Country level

CNI type	Moderator trait	Est	95% CI	p
Fanaticism	Dynamism [*]	0.206	[0.173, 0.24]	< .001
Moral Foundations	Dynamism [*]	0.165	[0.131, 0.198]	< .001
Moral Foundations	Social Self-Regulation [*]	-0.144	[-0.176, -0.112]	< .001
GLOBE-Extra	Dynamism [*]	0.127	[0.099, 0.155]	< .001
Personality 6	Dynamism [*]	0.119	[0.093, 0.146]	< .001
Personality 6	Social Self-Regulation [*]	0.102	[0.076, 0.127]	< .001
Moral Foundations	Organizational Religious Activity [†]	-0.096	[-0.102, -0.089]	< .001
Moral Foundations	Non-organizational Religious Activity [†]	-0.09	[-0.096, -0.085]	< .001
Moral Foundations	Self Enhancement [†]	-0.09	[-0.103, -0.076]	< .001
Moral Foundations	Conservation [†]	-0.088	[-0.094, -0.081]	< .001
Mindset	Dynamism [*]	0.079	[0.059, 0.099]	< .001
Moral Foundations	Assertiveness [†]	0.067	[0.059, 0.074]	< .001
GLOBE-Extra	Organizational Religious Activity [†]	-0.063	[-0.069, -0.058]	< .001
Moral Foundations	Extraversion [*]	0.062	[0.058, 0.067]	< .001
Moral Foundations	Purity [†]	-0.059	[-0.064, -0.053]	< .001
GLOBE-Extra	Self Enhancement [†]	-0.058	[-0.069, -0.047]	< .001
Moral Foundations	Authority [†]	-0.057	[-0.061, -0.053]	< .001
Fanaticism	Self Enhancement [†]	-0.057	[-0.071, -0.043]	< .001
Fanaticism	Self Transcendence [†]	0.056	[0.043, 0.069]	< .001
Moral Foundations	Prone to Aggression [†]	-0.056	[-0.062, -0.05]	< .001

* Personality trait

† Mindset trait

Table 47: Strongest Quadratic associations with CNI at the Country level

CNI type	Moderator trait	Est	95% CI	p
Moral Foundations	Dynamism*	1.154	[1.026, 1.282]	< .001
Moral Foundations	Social Self-Regulation*	-0.65	[-0.784, -0.516]	< .001
GLOBE-Extra	Social Self-Regulation*	-0.605	[-0.716, -0.494]	< .001
GLOBE-Extra	Dynamism*	0.524	[0.417, 0.631]	< .001
Fanaticism	Social Self-Regulation*	-0.461	[-0.596, -0.327]	< .001
GLOBE	Social Self-Regulation*	-0.4	[-0.511, -0.288]	< .001
Fanaticism	Dynamism*	0.279	[0.15, 0.408]	< .001
GLOBE	Dynamism*	0.264	[0.156, 0.373]	< .001
Isms	Dynamism*	0.241	[0.135, 0.348]	< .001
Mindset	Social Self-Regulation*	-0.23	[-0.31, -0.151]	< .001
Social Axioms	Dynamism*	0.206	[0.098, 0.315]	< .001
Mindset	Dynamism*	0.174	[0.097, 0.251]	< .001
Moral Foundations	Openness to Change†	0.149	[0.126, 0.171]	< .001
Social Axioms	Openness to Change†	0.136	[0.118, 0.155]	< .001
GLOBE	Openness to Change†	0.111	[0.092, 0.13]	< .001
Isms	Openness to Change†	0.111	[0.092, 0.129]	< .001
GLOBE-Extra	Openness to Change†	0.105	[0.086, 0.124]	< .001
Moral Foundations	Self Transcendence†	0.102	[0.084, 0.119]	< .001
Personality 6	Openness to Change†	0.098	[0.079, 0.116]	< .001
Mindset	Openness to Change†	0.089	[0.075, 0.102]	< .001

* Personality trait

† Mindset trait

```

    str_detect(variable, "globe") ~ "Globe",
    str_detect(variable, "Isms|CommRation|SubjSpirit|IneqAver") ~ "Isms",
    str_detect(variable, "IndvColl") ~ "Individualism-Collectivism",
    str_detect(variable, "FamVal") ~ "Family Values",
    str_detect(variable, "Value") ~ "Schwartz Values",
    str_detect(variable, "fntc") ~ "Fanaticism",
    str_detect(variable, "Material") ~ "Materialism",
    str_detect(variable, "Machiaveln") ~ "Machiavellianism",
    str_detect(variable, "Prone_Aggr") ~ "Prone to Aggression",
    str_detect(variable, "Ethnonational") ~ "Ethnonationalism",
    str_detect(variable, "Tightness") ~ "Tightness-Looseness",
    str_detect(variable, "Amoralism") ~ "Amoralism",
    str_detect(variable, "DRI") ~ "Duke Religiosity Index",
    str_detect(variable, "CivicMCNational") ~ "Civic Multicultural Nationalism",
    TRUE ~ "OTHER"),
  term_type = case_when(
    term == "z_etry_response:modtr_score" ~ "Linear",
    term == "z_etry_response:I(modtr_score^2)" ~ "Quadratic",
    TRUE ~ NA_character_,
    .default = NA_character_)
  )

# Select 15 highest and 15 lowest estimates and tag them as 'Highest' or 'Lowest'
highest_15 <- base_data %>% head(15) %>% mutate(group = "Highest 15 Estimates")
lowest_15 <- base_data %>% tail(15) %>% mutate(group = "Lowest 15 Estimates")

# Combine the data
all_data <- bind_rows(highest_15, lowest_15)

# Define the overall range of estimates for consistent axis scaling
estimate_range <- range(c(all_data$conf.high, all_data$conf.low))

# Define the plot
combined_plot <- ggplot(all_data,
  aes(x = reorder(modtr, estimate), y = estimate, color = color, linetype = term_type, shape = level,
  geom_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0, alpha = 0.3, size = 3, position = position_dodge(width = 0.4)) +
  geom_point(size = 2, position = position_dodge(width = 0.4)) +
  geom_linerange(aes(ymin = 0, ymax = estimate), position = position_dodge(width = 0.4)) +
  scale_shape_manual(values = c("Country" = 15, "Individual" = 17), drop = FALSE) +
  scale_color_manual(values = c(
    "Isms" = "#7F0000",
    "Globe" = "#377EB8",
    "Social Axioms" = "#4DAF4A",
    "Moral Foundations" = "#984EA3",
    "Individualism-Collectivism" = "#FF7F00",
    "Family Values" = "#DAA520",
    "Schwartz Values" = "#5A3CB4",
    "Fanaticism" = "#196569",
    "Materialism" = "#F781BF",
    "Machiavellianism" = "#8f8d2f",

```

```

"Prone to Aggression" = "#E41A1C",
"Ethnonationalism" = "#C67B53",
"Tightness-Looseness" = "#8B4513",
"Amoralism" = "#00FFFF",
"Duke Religiosity Index" = "#FF1493",
"Civic Multicultural Nationalism" = "#1da87e"
), drop = FALSE) +
  scale_linetype_manual(values = c("Linear" = "dotdash", "Quadratic" = "solid"), drop = FALSE) +
  scale_y_continuous(limits = estimate_range) +
  coord_flip() +
  facet_wrap(~group, ncol = 1, scales = "free_y")+
  theme_minimal(base_family = "serif", base_size = 12) +
  labs(
    x = NULL,
    y = "Estimate",
    color = "Domain",
    shape = "Level",
    linetype = "Association") +
    theme_bw() +
  theme(text = element_text(family = "serif", size = 12), legend.position = "bottom",
        legend.text = element_text(size = 8.1),
        legend.title = element_text(size = 8.5))+

  guides(
    color = guide_legend(ncol = 4, title.position = "top"), # 2 columns for Domain
    shape = guide_legend(ncol = 1, title.position = "top"), # 1 column for Level
    linetype = guide_legend(ncol = 1, title.position = "top") # 1 column for Association
  )

return(combined_plot)
}

plot_high.low_pty_effects <- function(data) {
  base_data <- data %>%
    # cni.ContMod_tables$ismCNI.ptty %>%
    specify_var_names() %>%
    filter(round(p.value, 3) < 0.05) %>%
    arrange(desc(abs(estimate))) %>%
    mutate(
      color = case_when(
        modtr == "Conscientiousness" ~ "Big 6",
        modtr == "Honesty" ~ "Big 6",
        modtr == "Agreeableness" ~ "Big 6",
        modtr == "Resilience" ~ "Big 6",
        modtr == "Extraversion" ~ "Big 6",
        modtr == "Originality/Virtuosity" ~ "Big 6",
        modtr == "Social Self-Regulation" ~ "Big 2",
        modtr == "Dynamism" ~ "Big 2",
        TRUE ~ "Other"),
      term_type = case_when(
        term == "z_ctype_response:modtr_score" ~ "Linear",
        term == "z_ctype_response:I(modtr_score^2)" ~ "Quadratic",
        TRUE ~ NA_character_,

```

```

      .default = NA_character_)
    )

# Select 15 highest and 15 lowest estimates and tag them as 'Highest' or 'Lowest'
highest_15 <- base_data %>% head(15) %>% mutate(group = "Highest 15 Estimates")
lowest_15 <- base_data %>% tail(15) %>% mutate(group = "Lowest 15 Estimates")

# Combine the data
all_data <- bind_rows(highest_15, lowest_15)
# Define the overall range of estimates for consistent axis scaling
estimate_range <- range(c(all_data$conf.low, all_data$conf.high))

# Define the plot
combined_plot <- ggplot(all_data,
  aes(x = reorder(modtr, estimate), y = estimate, color = color, linetype = term_type, shape = level)) +
  geom_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0, alpha = 0.3, size = 3, position = position_dodge(width = 0.4)) +

  geom_point(aes(shape = level), size = 2, position = position_dodge(width = 0.4)) +

  geom_linerange(aes(ymin = 0, ymax = estimate, linetype = term_type), position = position_dodge(width = 0.4)) +

  scale_shape_manual(values = c("Country" = 15, "Individual" = 17), drop = FALSE) +
  scale_color_manual(values = c(
    "Big 2" = "#377EB8",
    "Big 6" = "#008f7a")) +
  scale_linetype_manual(values = c("Linear" = "dotted", "Quadratic" = "solid"), drop = FALSE) +
  scale_y_continuous(limits = estimate_range) + # Ensure consistent y-axis limits
  coord_flip() +
  facet_wrap(~group, ncol = 1, scales = "free_y") + # Facet the plot into Highest and Lowest
  theme_minimal(base_family = "serif", base_size = 12) +
  labs(
    x = NULL,
    y = "Estimate",
    color = "Domain",
    fill = "Domain",
    shape = "Level",
    linetype = "Association") +
  theme_bw() +
  theme(
    text = element_text(family = "serif", size = 12), legend.position = "bottom") +

  guides(
    color = guide_legend(ncol = 2, title.position = "top"), # 2 columns for Domain
    fill = guide_legend(ncol = 2, title.position = "top"), # 2 columns for Domain (for the ribbon)
    shape = guide_legend(ncol = 1, title.position = "top"), # 1 column for Level
    linetype = guide_legend(ncol = 1, title.position = "top") # 1 column for Association
  )

return(combined_plot)
}

```

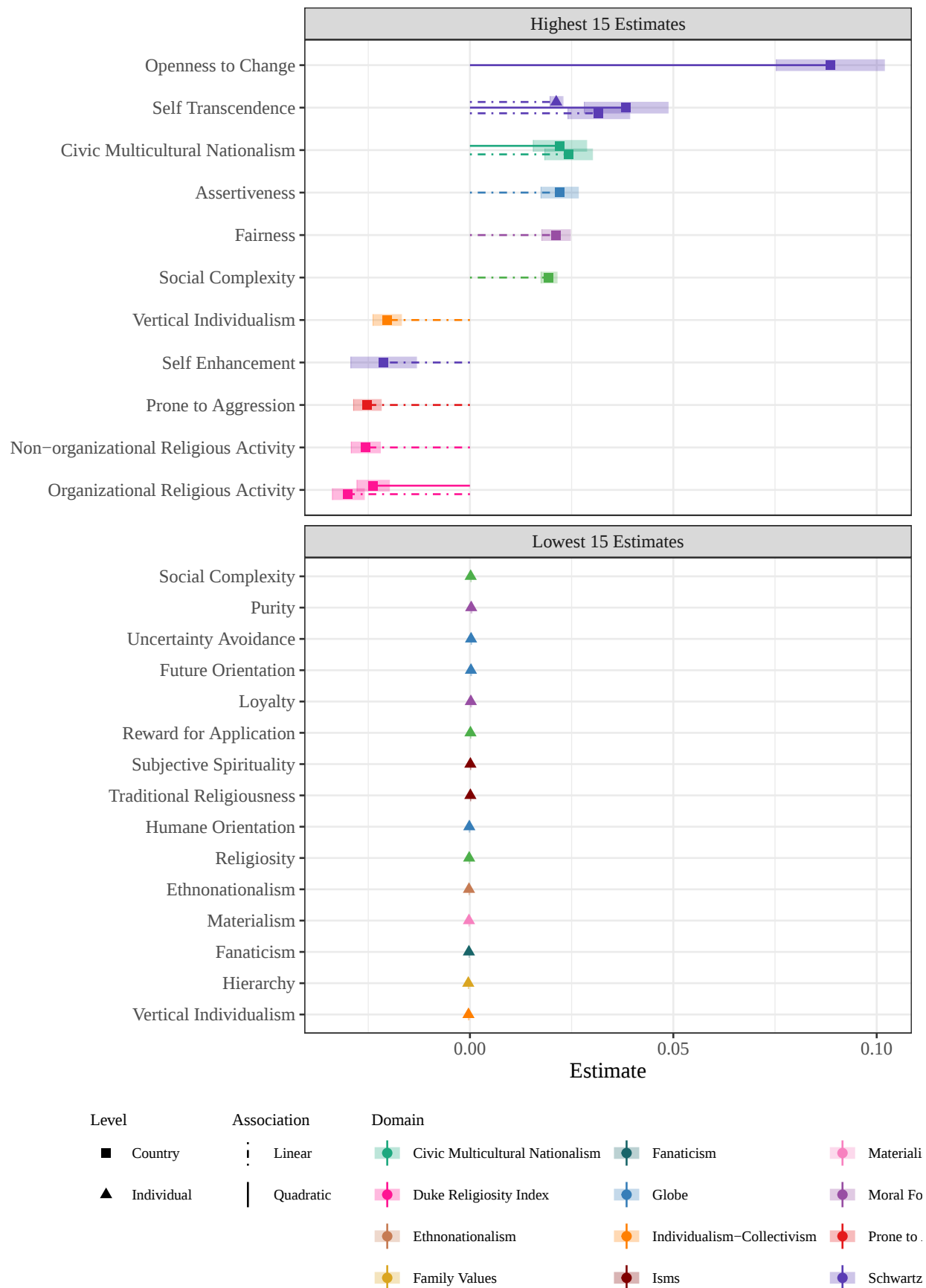


Figure 12: Overall trends: Associations between Mindset CNI and Mindset variables

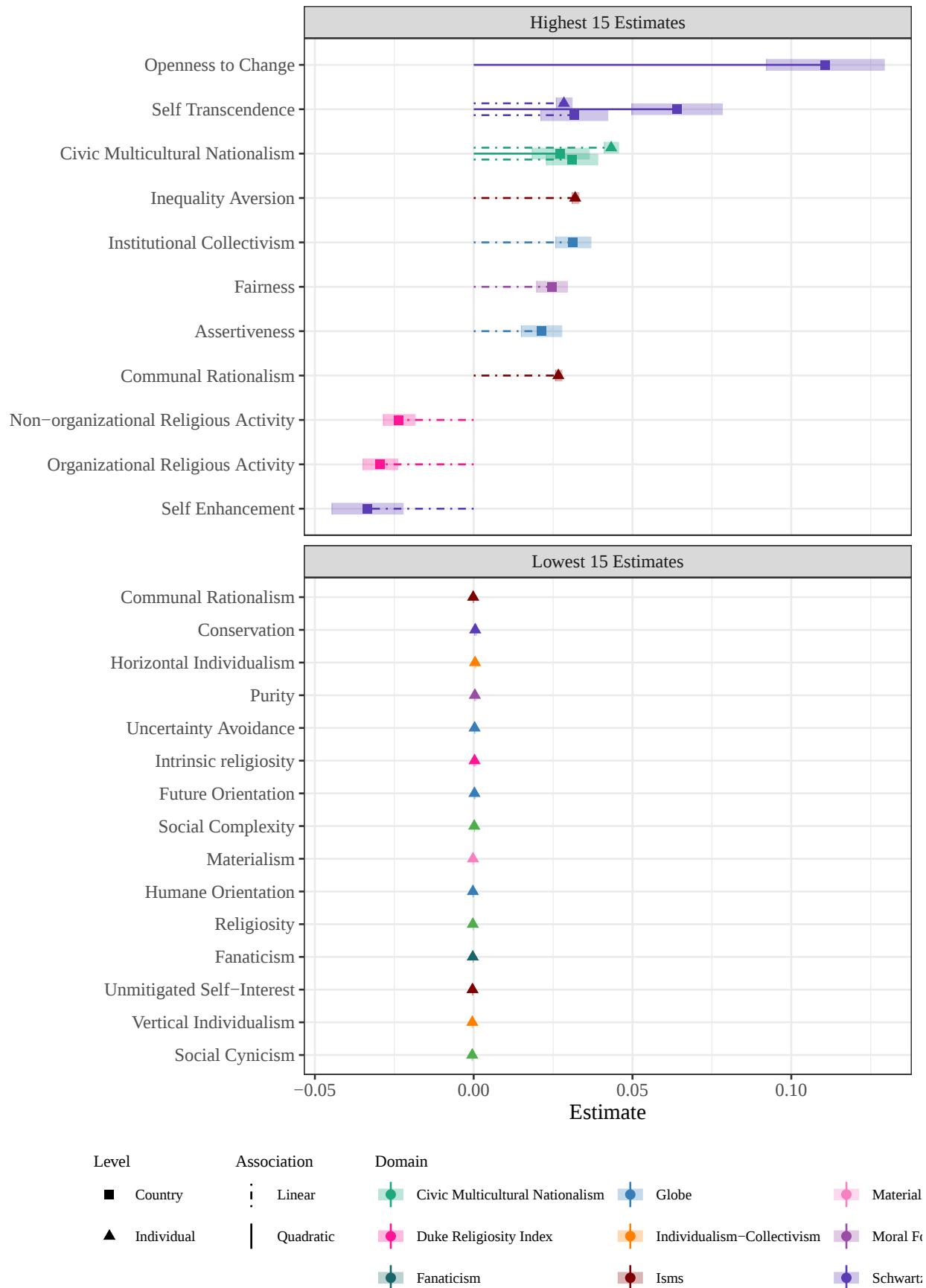


Figure 13: Overall trends: Associations between Isms-Mindset CNI and Mindset variables

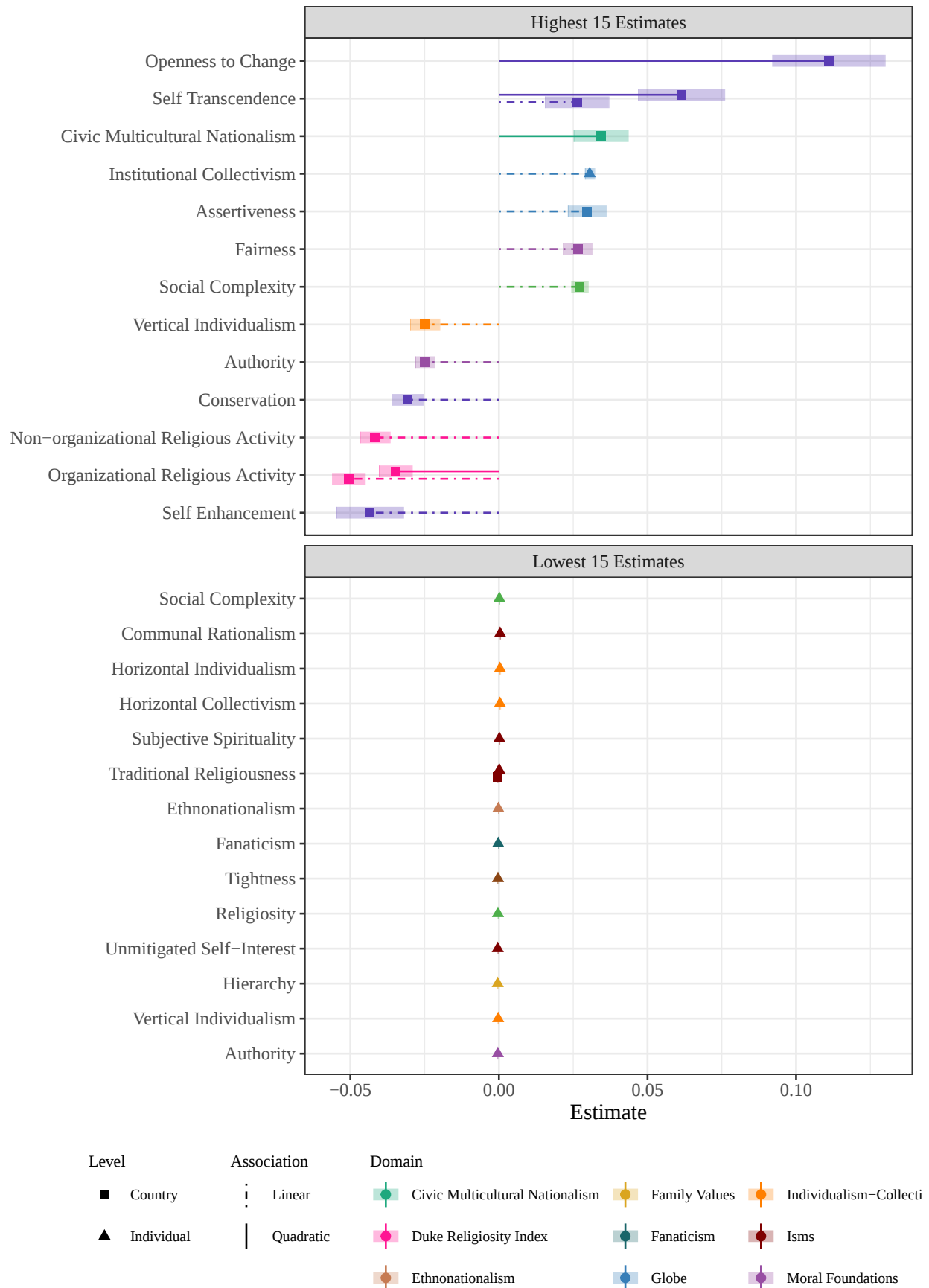


Figure 14: Overall trends: Associations between Globe-Mindset CNI and Mindset variables

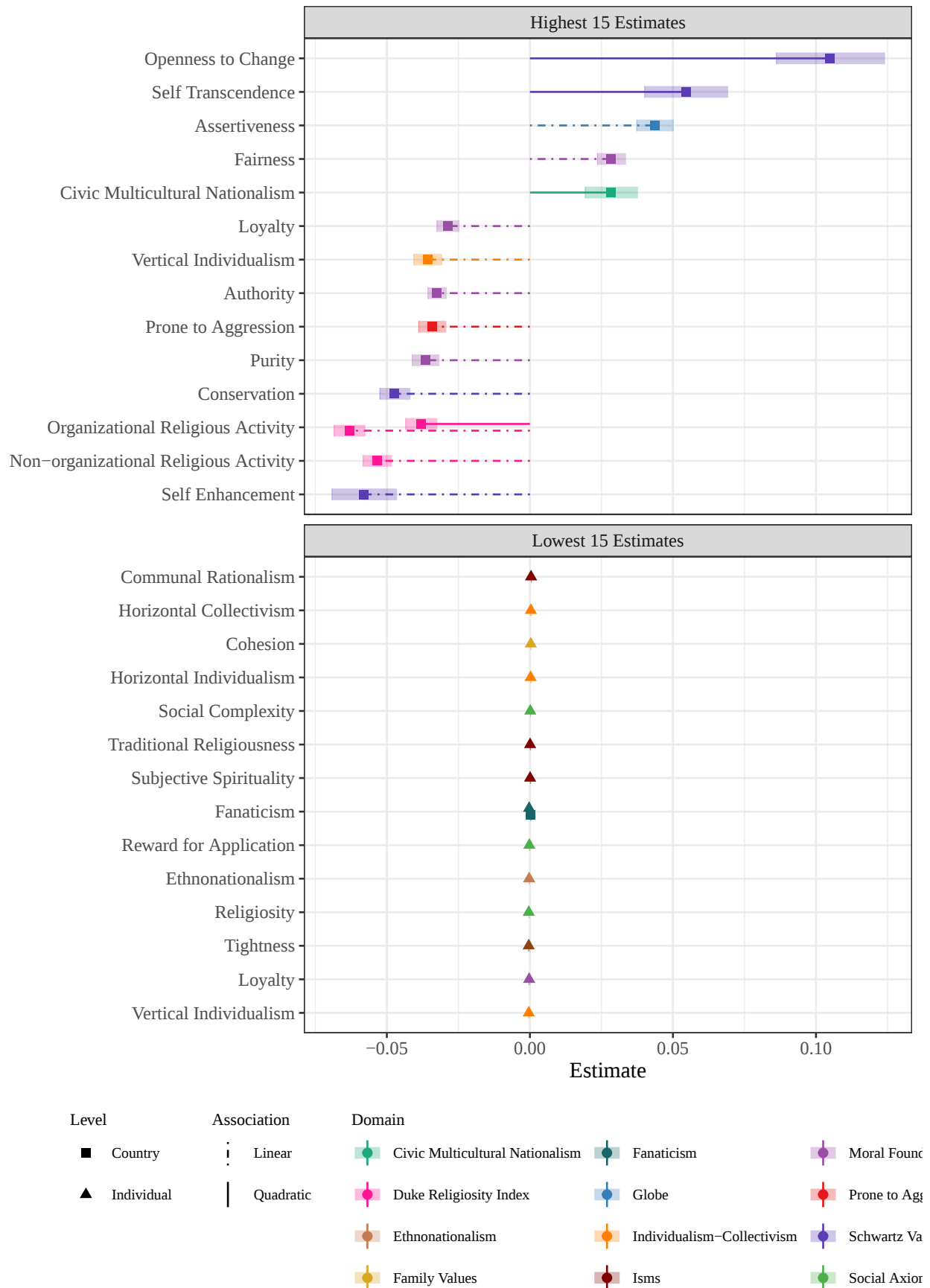


Figure 15: Overall trends: Associations between Globe (Extra items) and Mindset variables

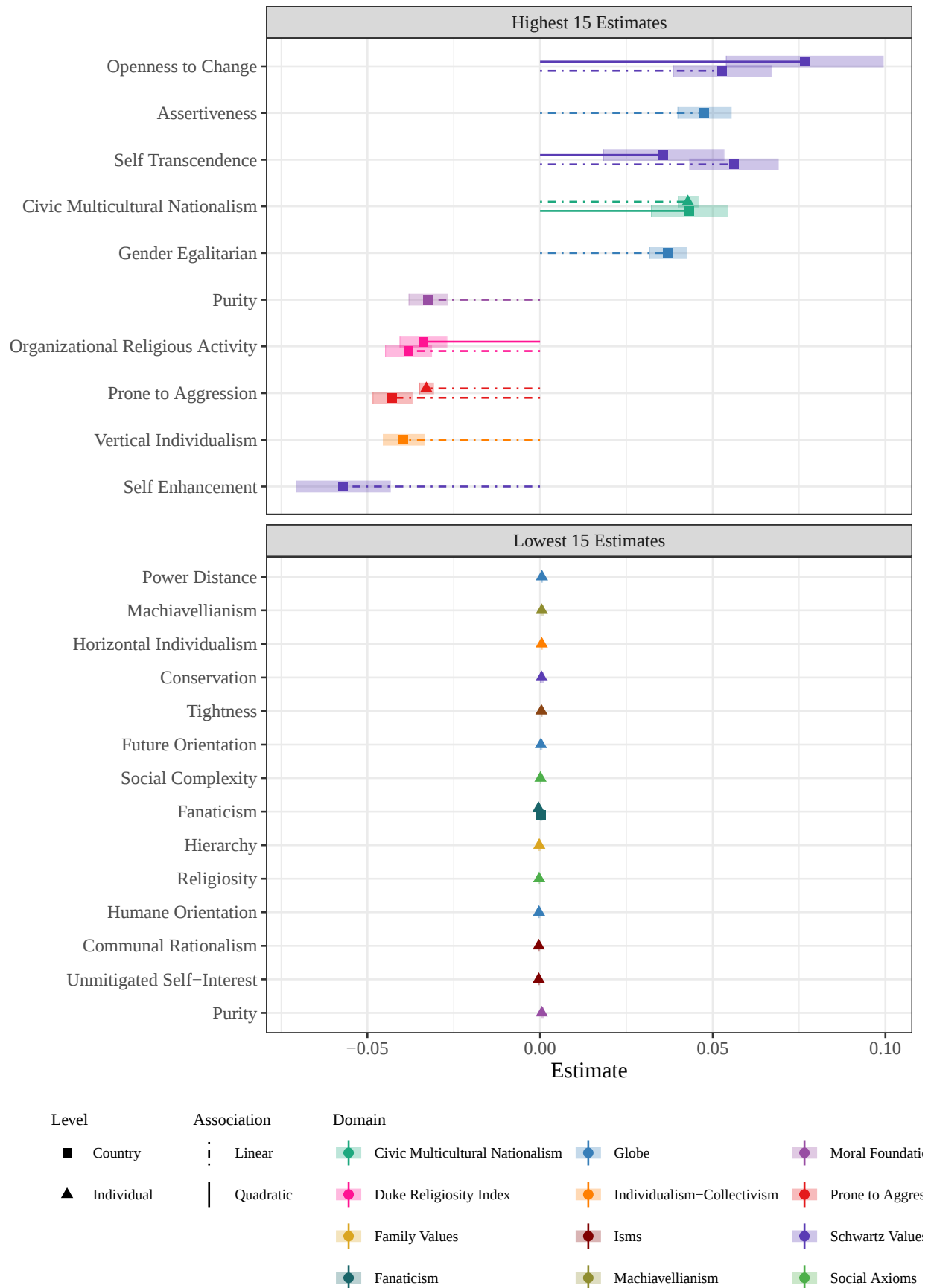


Figure 16: Overall trends: Associations between Fanaticism-Mindset CNI and Mindset variables

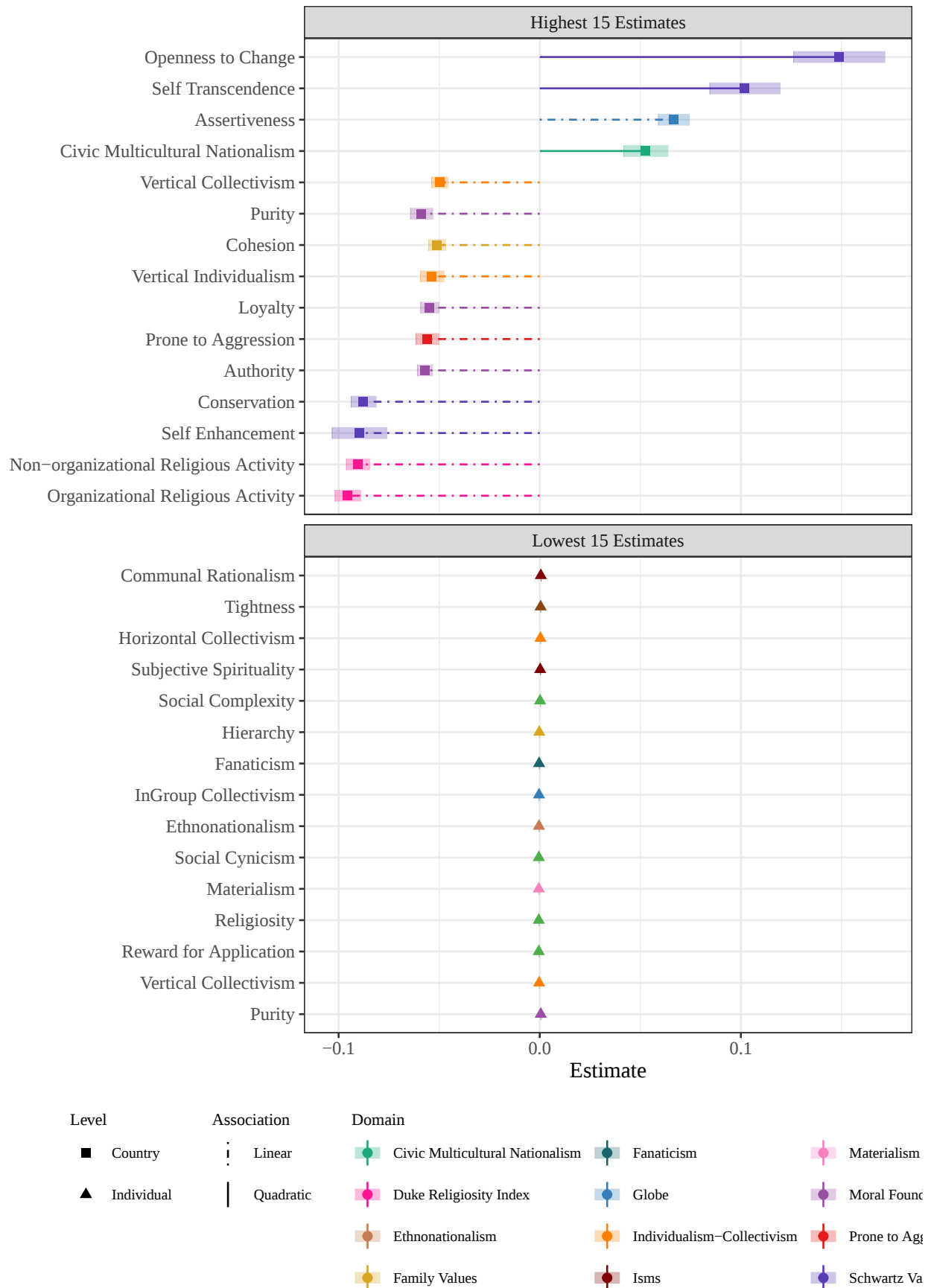


Figure 17: Overall trends: Associations between Moral Foundations-Mindset (MFI) and Mindset variables

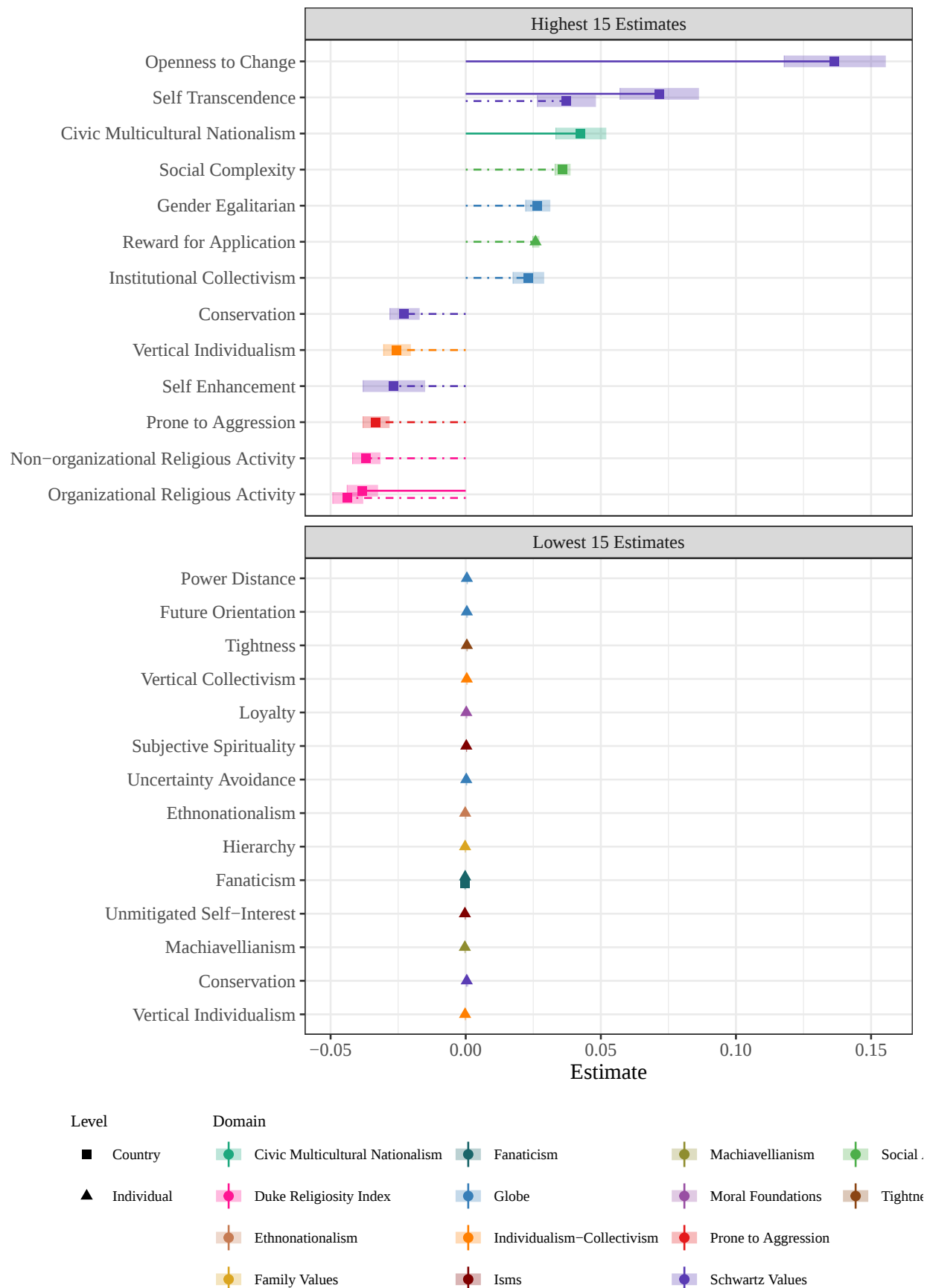


Figure 18: Overall trends: Associations between Social Axioms-Mindset CNI and Mindset variables

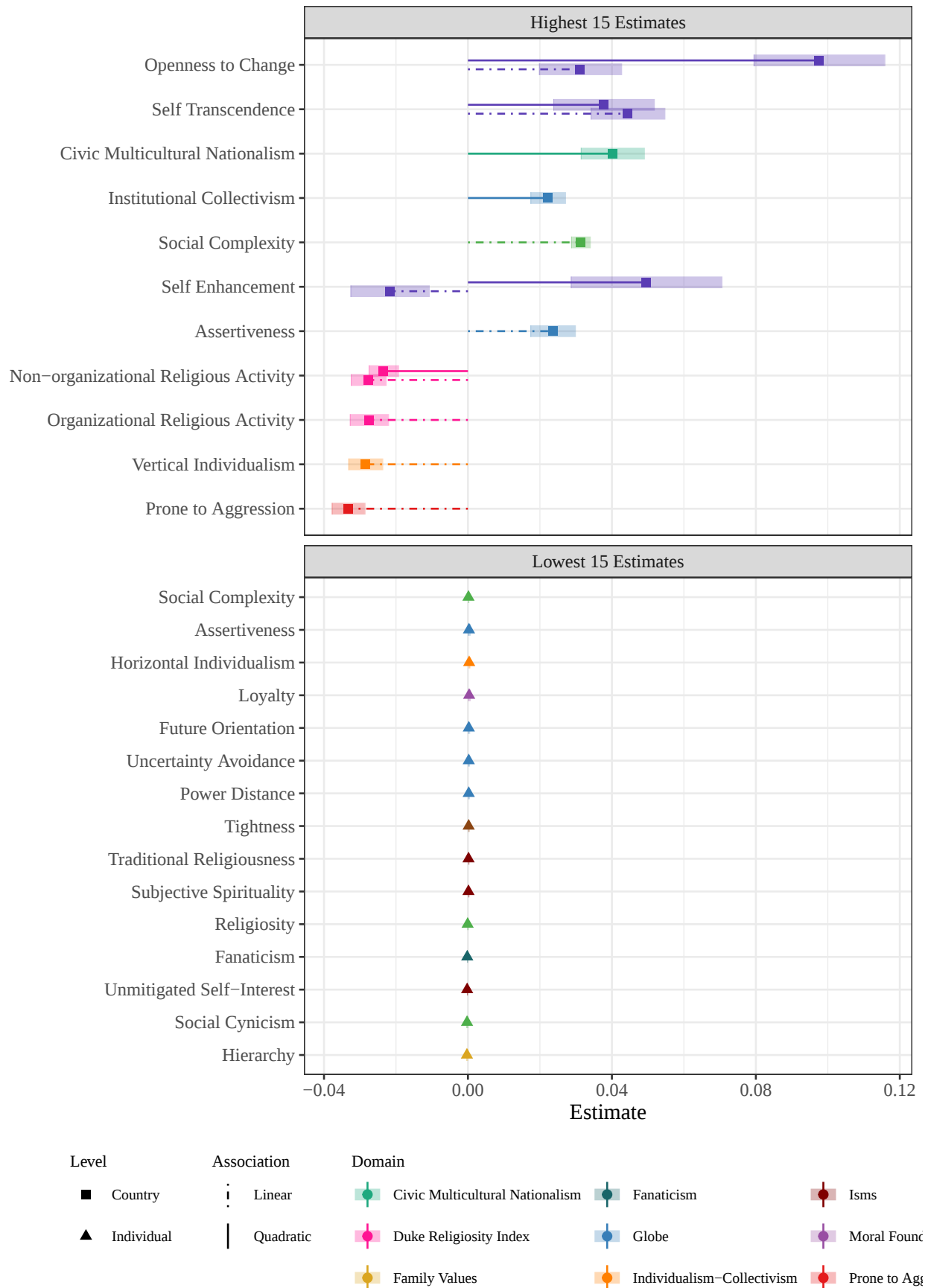


Figure 19: Overall trends: Associations between Personality6 CNI and Mindset variables

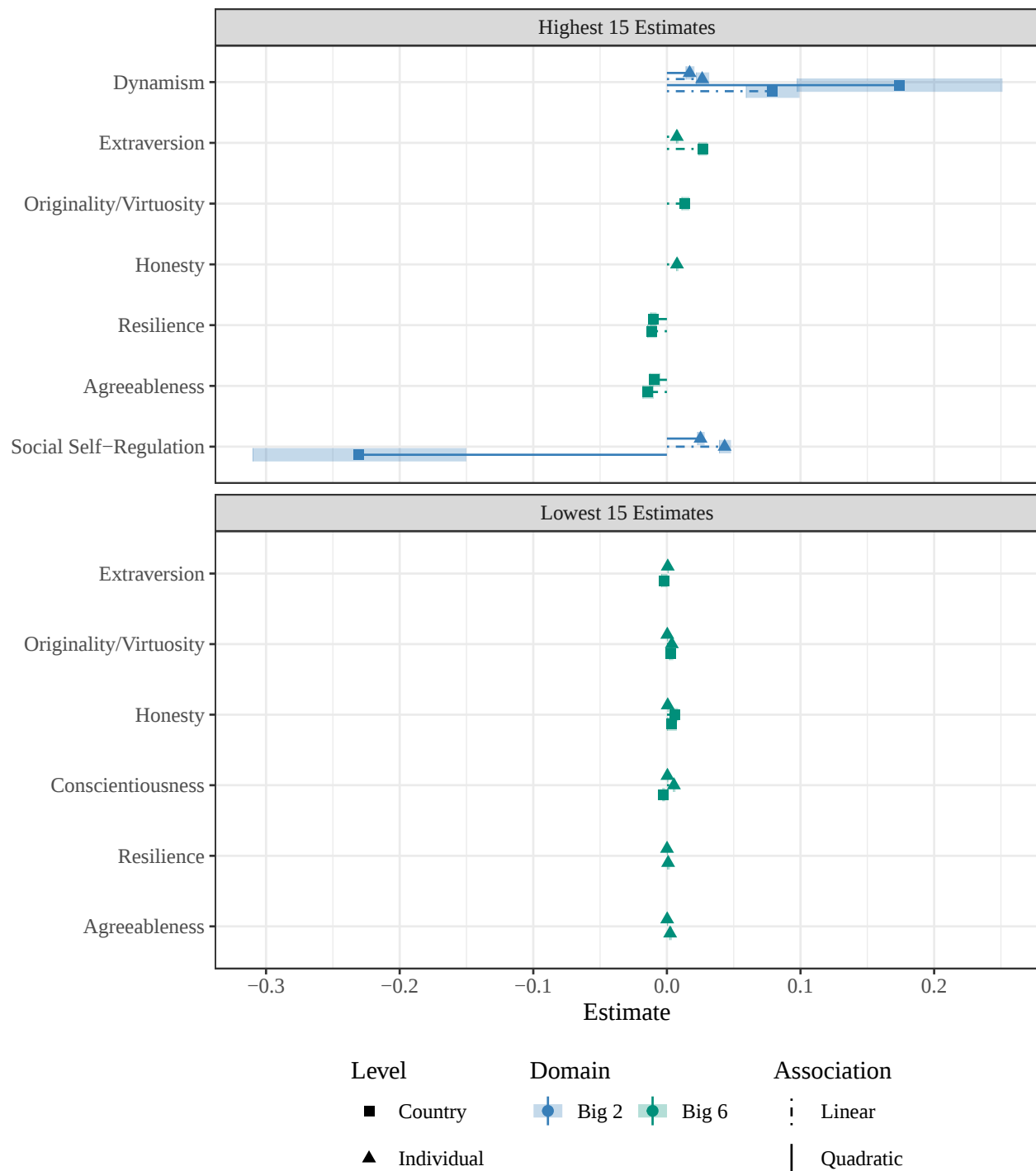


Figure 20: Overall trends: Associations between Mindset CNI and Personality variables

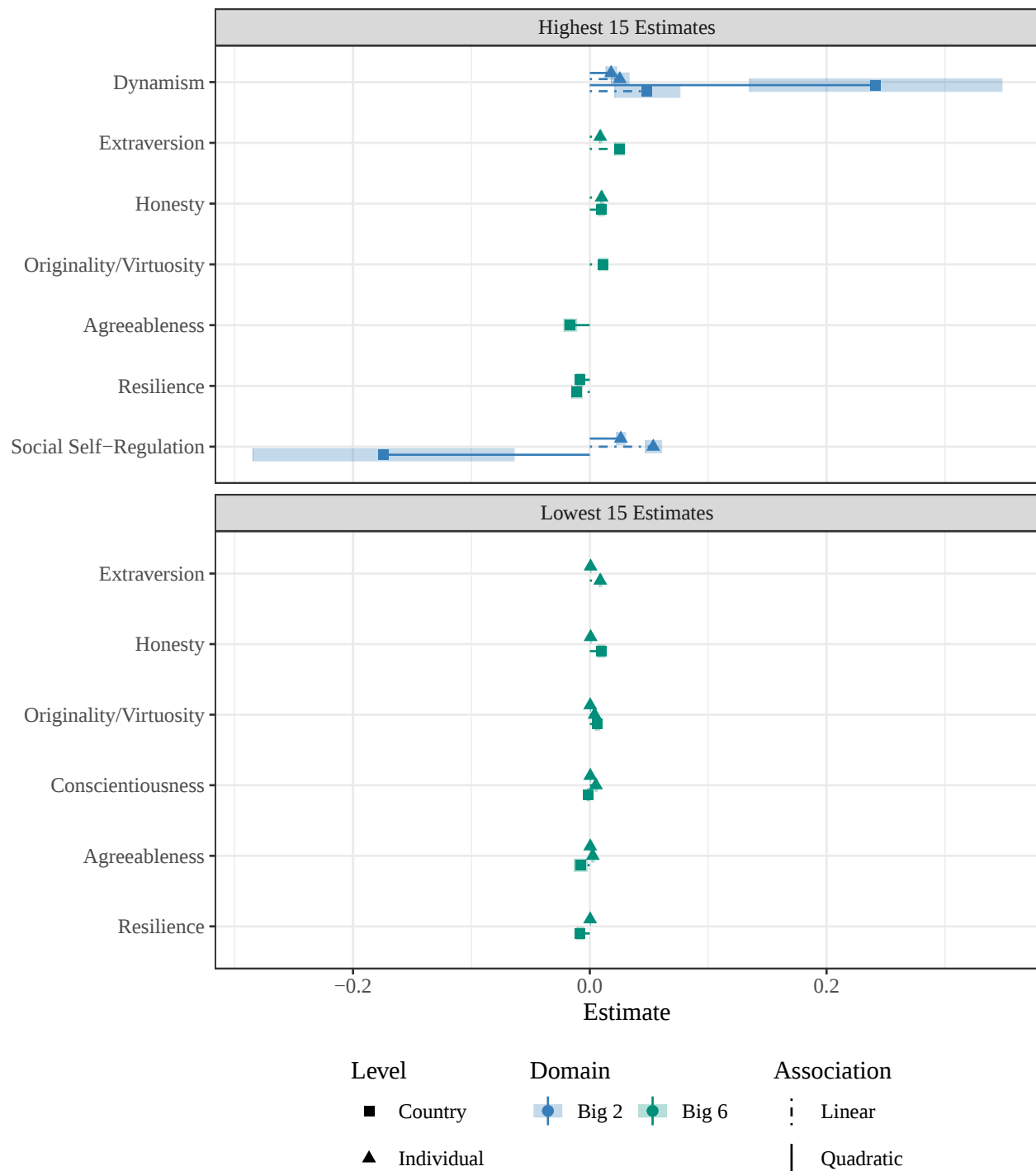


Figure 21: Overall trends: Associations between Isms-Mindset CNI and Personality variables

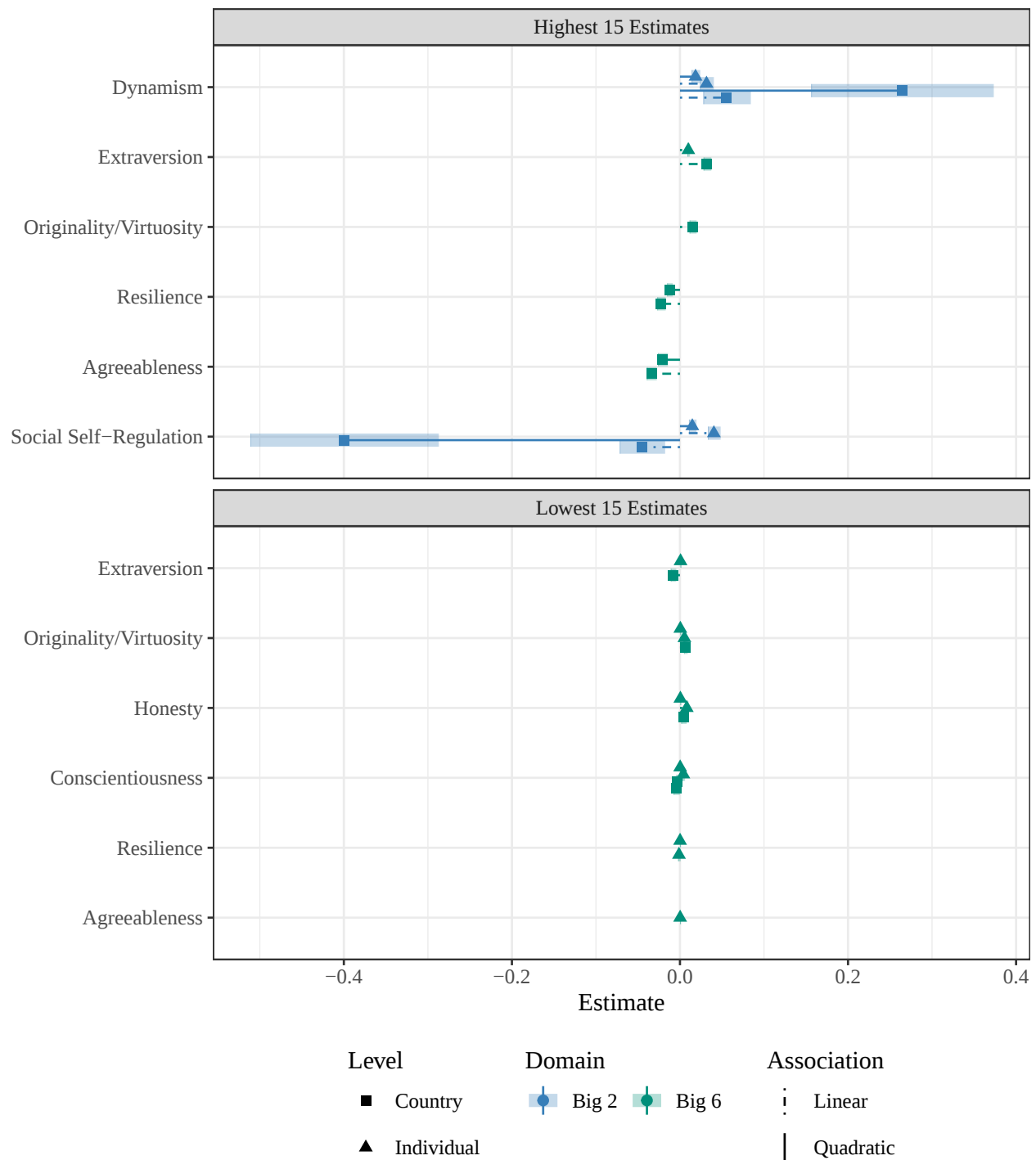


Figure 22: Overall trends: Associations between Globe-Mindset CNI and Personality variables

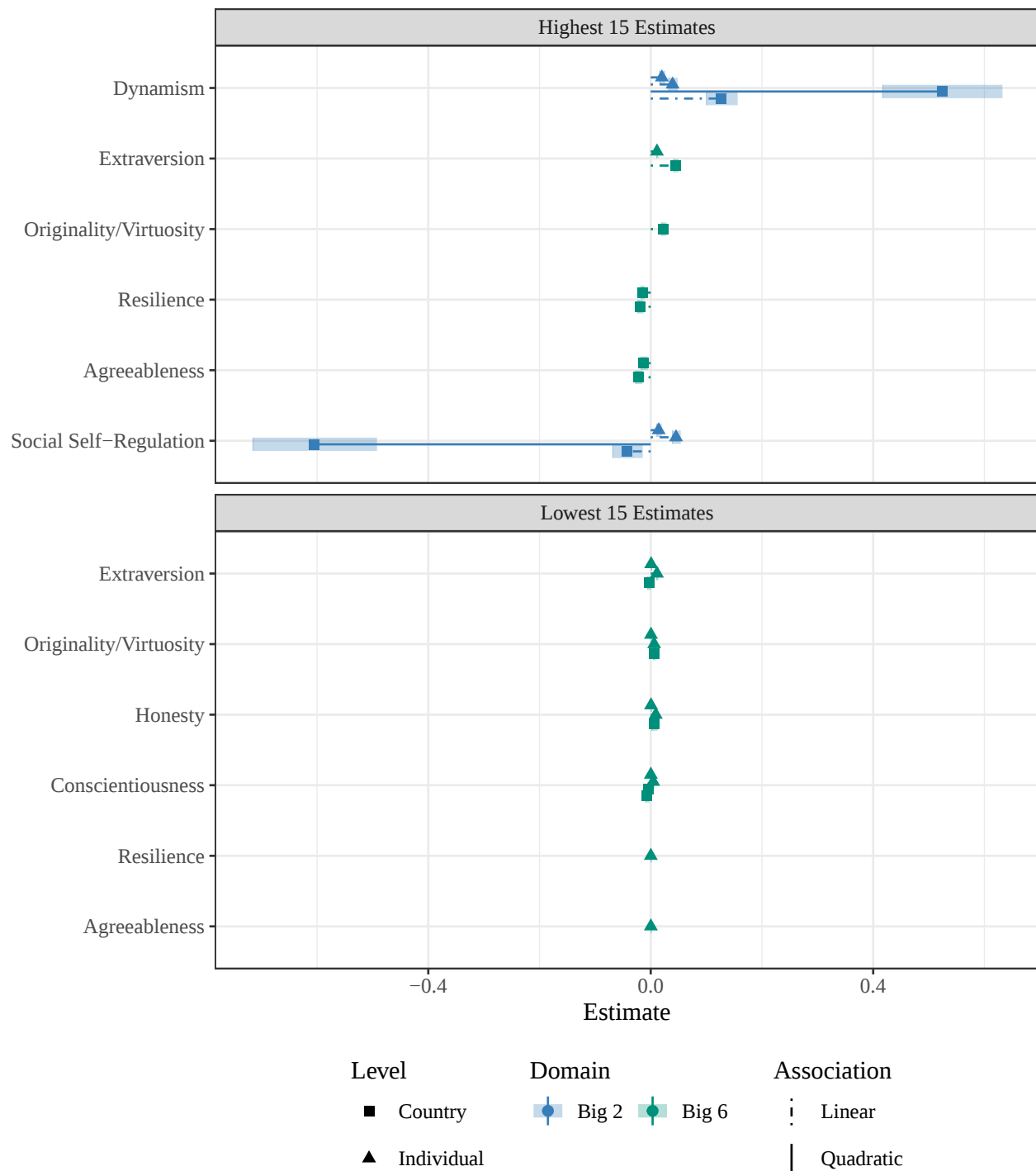


Figure 23: Overall trends: Associations between Globe (Extra items) and Personality variables

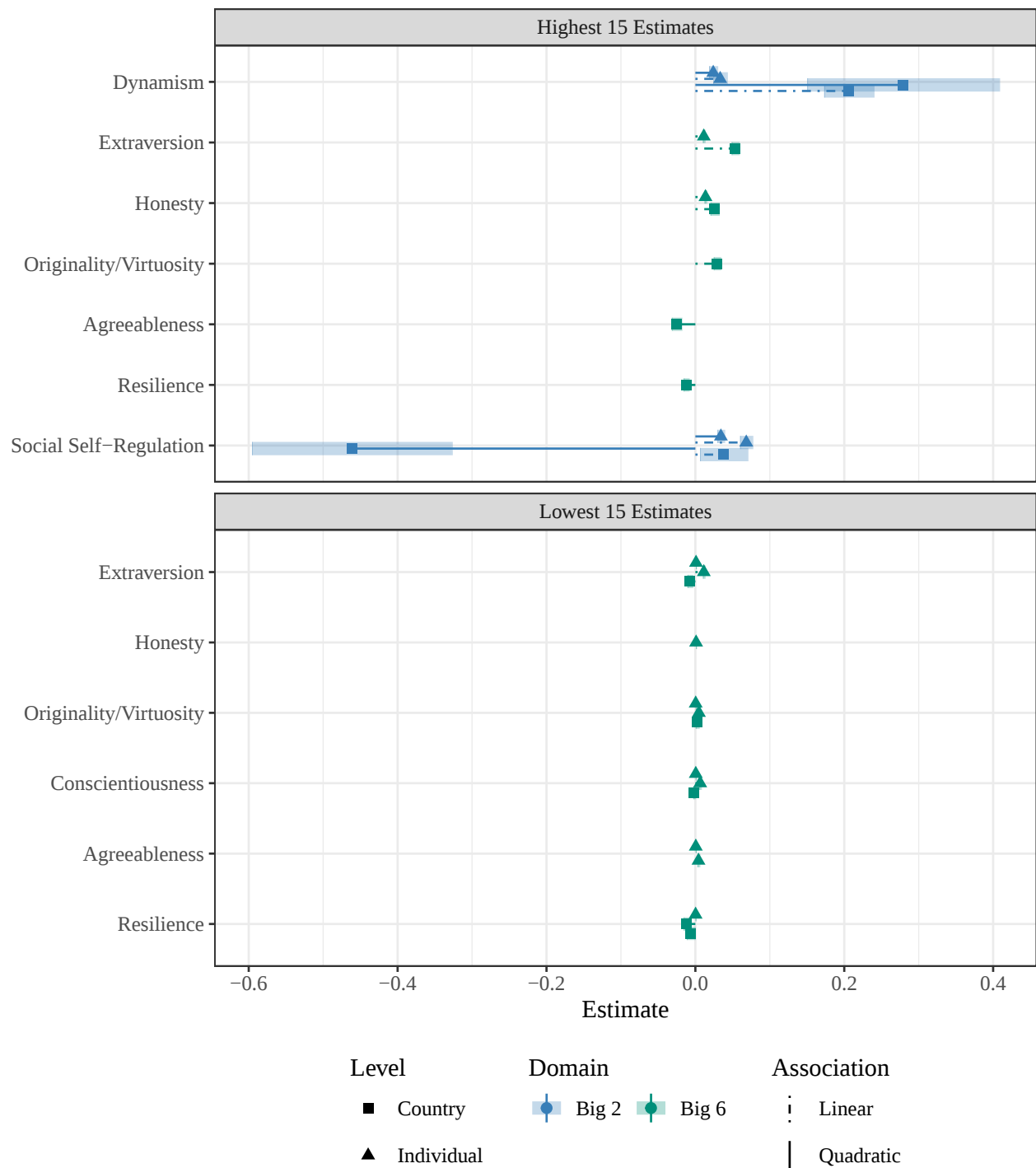


Figure 24: Overall trends: Associations between Fanaticism-Mindset CNI and Personality variables

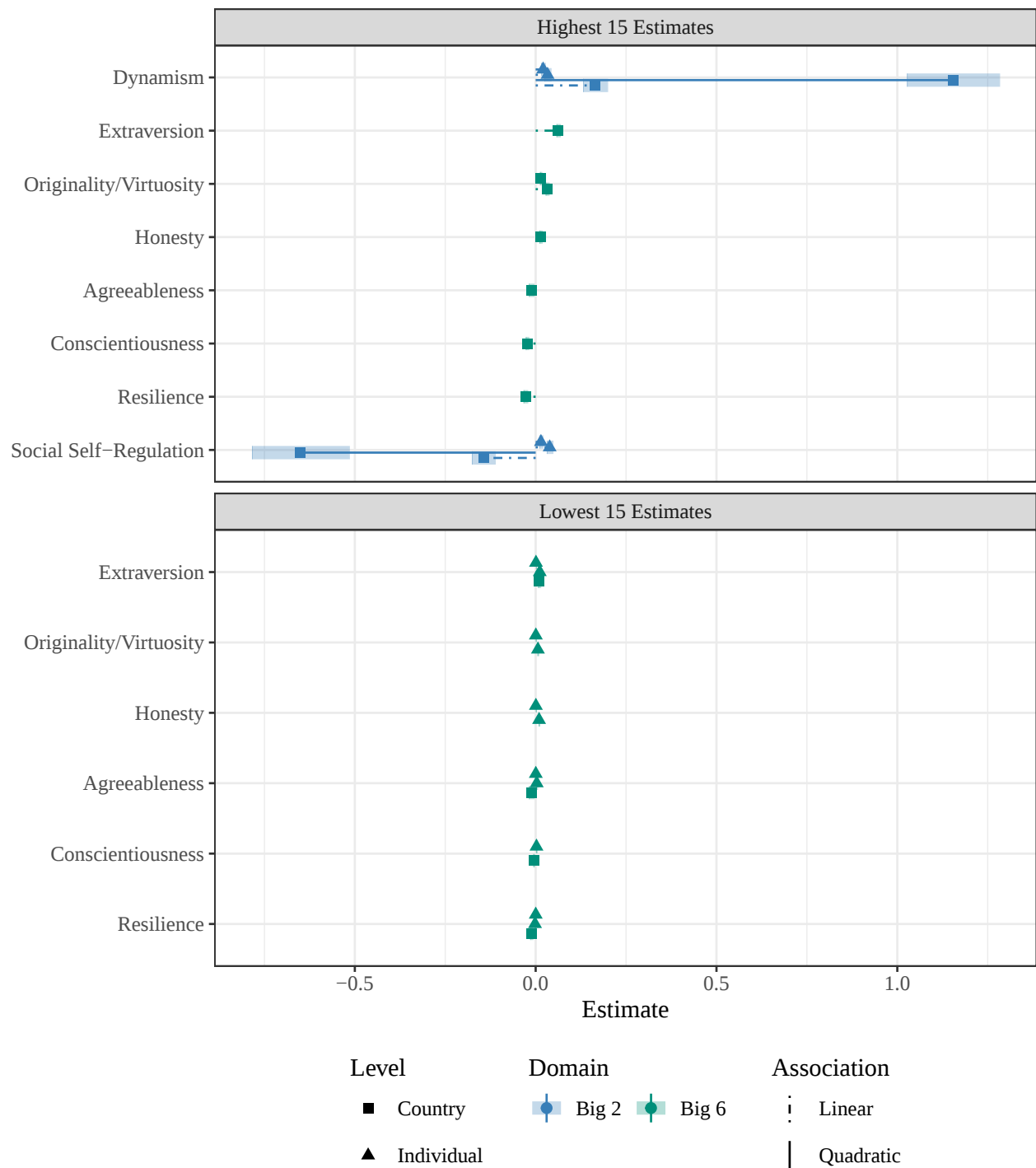


Figure 25: Overall trends: Associations between Moral Foundations-Mindset CNI and Personality variables

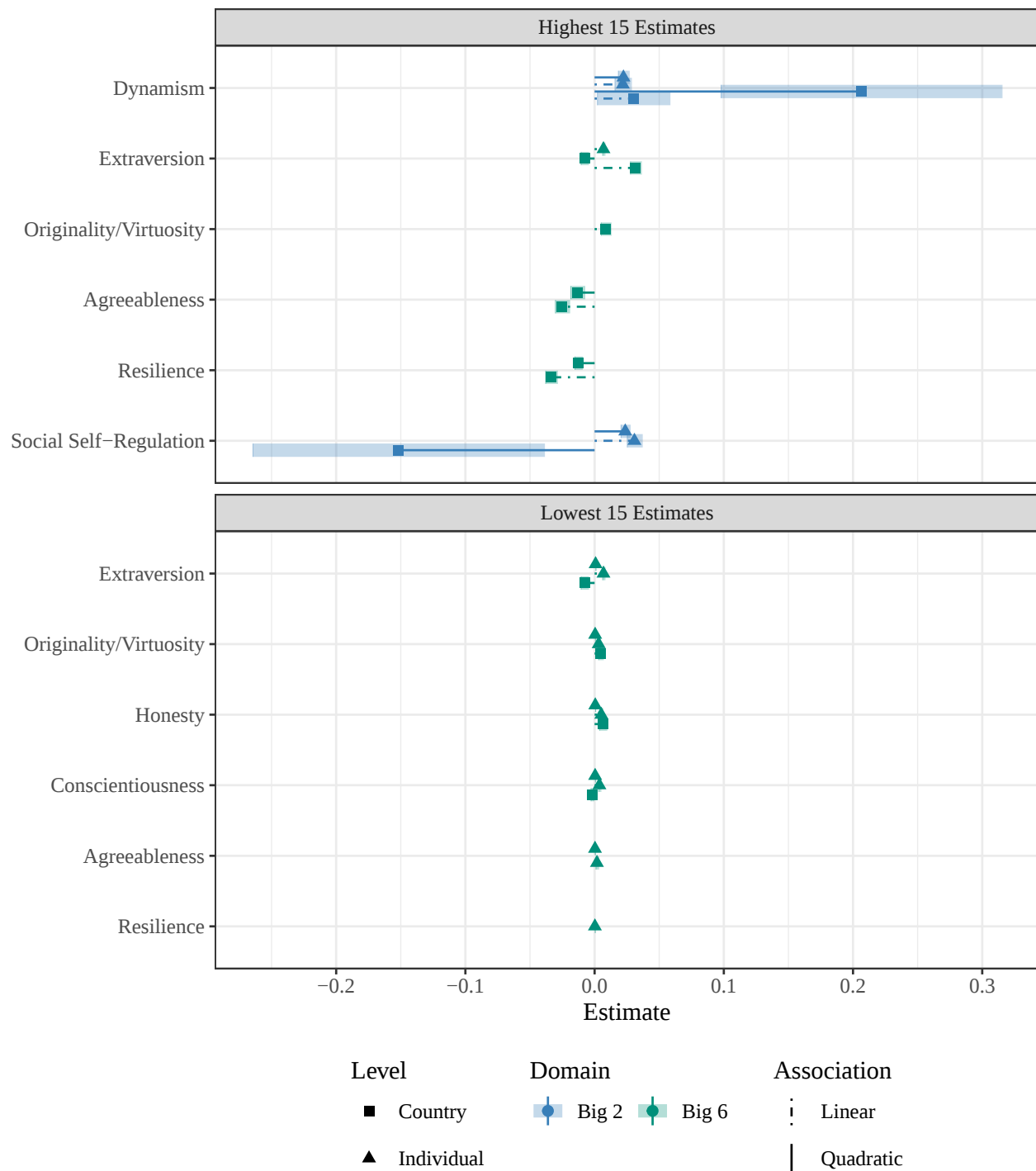


Figure 26: Overall trends: Associations between Social Axims-Mindset CNI and Personality variables

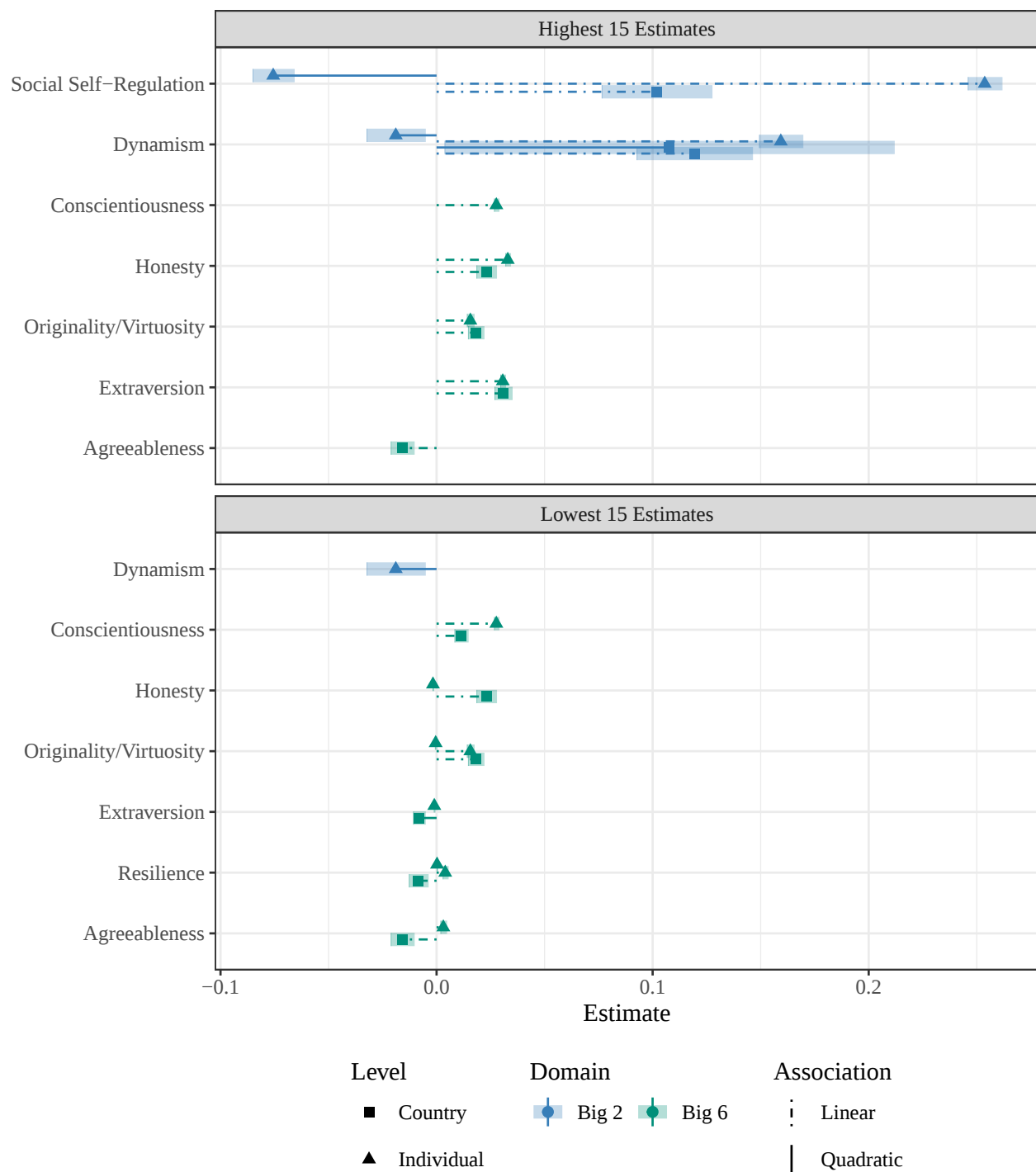


Figure 27: Overall trends: Associations between Personality6 CNI and Personality variables

4.3.2 Linear and Quadratic effects

```
cni.pty_effects_plot <- \(data, association_type){  
  
  if (association_type == "linear") {  
    data_ass.type <- data %>% #cni.ContMod_tables$globeCNI.pty7  
    #linear effects  
    filter(term == "z_ctype_response:modtr_score")  
  } else if (association_type == "quadratic") {  
    data_ass.type <- data %>%  
    #quadratic effects  
    filter(term == "z_ctype_response:I(modtr_score^2)")  
  } else {  
    stop("Invalid association type. Choose 'linear' or 'quadratic'")  
  }  
  
  processed_data <- data_ass.type %>%  
    specify_var_names() %>%  
    with_groups(modtr, ~ mutate(.x, avg_abs_estimate = mean(abs(estimate)))) %>%  
    mutate(  
      modtr = fct_reorder(modtr, avg_abs_estimate, .desc = FALSE),  
      domain = case_when(  
        modtr == "Conscientiousness" ~ "Big 6",  
        modtr == "Honesty" ~ "Big 6",  
        modtr == "Agreeableness" ~ "Big 6",  
        modtr == "Resilience" ~ "Big 6",  
        modtr == "Extraversion" ~ "Big 6",  
        modtr == "Originality/Virtuosity" ~ "Big 6",  
        modtr == "Social Self-Regulation" ~ "Big 2",  
        modtr == "Dynamism" ~ "Big 2",  
        TRUE ~ "Other"),  
      sig = case_when(  
        p.value < .05 & estimate > 0 ~ "Pos",  
        p.value < .05 & estimate < 0 ~ "Neg",  
        TRUE ~ "NOT"),  
      colors = case_when(  
        domain == "Big 2" ~ "#377EB8",  
        domain == "Big 6" ~ "#008f7a")  
    )  
  
  base_plot <- ggplot(processed_data, aes(x = modtr, y = estimate, fill = domain, alpha = level)) +  
    geom_col(position = position_dodge(width = 0.8)) +  
    geom_errorbar(aes(ymin = conf.low, ymax = conf.high),  
                  position = position_dodge(width = 0.8),  
                  width = 0.25) +  
    geom_hline(yintercept = 0, linetype = "dashed", color = "gray50") +  
    scale_fill_manual(values = setNames(processed_data$colors, processed_data$domain)) +  
    scale_alpha_manual(values = c("Individual" = 1, "Country" = 0.4)) +  
    labs(x = "Moderator", y = "Estimate",  
         fill = "Trait", alpha = "Level")  
  
  get_color_mapping <- function(data) {
```

```

data %>%
  arrange(desc(avg_abs_estimate)) %>%
  distinct(modtr, .keep_all = TRUE) %>%
  select(modtr, colors) %>%
  deframe()
}

# Get the color mapping
color_mapping <- get_color_mapping(processed_data)

final_plot <- base_plot +
  # domain independent order
  theme_bw() +
  coord_flip()+
  theme(text = element_text(family="serif", size = 11),
    legend.position = "bottom",
    axis.text.y = element_markdown(
      color = color_mapping[levels(processed_data$modtr)],
      size = 11))

  return(final_plot)
}

cni.mindset_effects_plot <- function(data, association_type, plot_type = c("domain dependent", "domain independent")) {
  if (association_type == "linear") {
    data_ass.type <- data %>%
      #linear effects
      filter(term == "z_ctype_response:modtr_score")
  } else if (association_type == "quadratic") {
    data_ass.type <- data %>%
      #quadratic effects
      filter(term == "z_ctype_response:I(modtr_score^2)")
  } else {
    stop("Invalid association type. Choose 'linear' or 'quadratic'")
  }
}

processed_data <- data_ass.type %>%
  specify_var_names() %>%
  with_groups(modtr, ~ mutate(.x, avg_abs_estimate = mean(abs(estimate)))) %>%
  mutate(
    modtr = fct_reorder(modtr, avg_abs_estimate, .desc = FALSE),
    domain = case_when(
      str_detect(variable, "MFQ") ~ "Moral Foundations",
      str_detect(variable, "SocAx") ~ "Social Axioms",
      str_detect(variable, "globe") ~ "Globe",
      str_detect(variable, "Isms|CommRation|SubjSpirit|IneqAver") ~ "Isms",
      str_detect(variable, "IndvColl") ~ "Individualism-Collectivism",
      str_detect(variable, "FamVal") ~ "Family Values",
      str_detect(variable, "Value") ~ "Schwartz Values",
      str_detect(variable, "fntc") ~ "Fanaticism",
      str_detect(variable, "Material") ~ "Materialism",

```

```

    str_detect(variable, "Machiaveln") ~ "Machiavellianism",
    str_detect(variable, "Prone_Aggr") ~ "Prone to Aggression",
    str_detect(variable, "Ethnonational") ~ "Ethnonationalism",
    str_detect(variable, "Tightness") ~ "Tightness-Looseness",
    str_detect(variable, "Amoralism") ~ "Amoralism",
    str_detect(variable, "DRI") ~ "Duke Religiosity Index",
    str_detect(variable, "CivicMCNational") ~ "Civic Multicultural Nationalism",
    TRUE ~ "OTHER"),
  sig = case_when(
    p.value < .05 & estimate > 0 ~ "Pos",
    p.value < .05 & estimate < 0 ~ "Neg",
    TRUE ~ "NOT")
) %>%
mutate(
  colors = case_when(
    str_detect(domain, "Isms") ~ "#7F0000",
    str_detect(domain, "Globe") ~ "#377EB8",
    str_detect(domain, "Social Axioms") ~ "#4DAF4A",
    str_detect(domain, "Moral Foundations") ~ "#984EA3",
    str_detect(domain, "Individualism-Collectivism") ~ "#FF7F00",
    str_detect(domain, "Family Values") ~ "#DAA520",
    str_detect(domain, "Schwartz Values") ~ "#5A3CB4",
    str_detect(domain, "Fanaticism") ~ "#196569",
    str_detect(domain, "Materialism") ~ "#F781BF",
    str_detect(domain, "Machiavellianism") ~ "#8f8d2f",
    str_detect(domain, "Prone to Aggression") ~ "#E41A1C",
    str_detect(domain, "Ethnonationalism") ~ "#C67B53",
    str_detect(domain, "Tightness-Looseness") ~ "#8B4513",
    str_detect(domain, "Amoralism") ~ "#00FFFF",
    str_detect(domain, "Duke Religiosity Index") ~ "#FF1493",
    str_detect(domain, "Civic Multicultural Nationalism") ~ "#1da87e",
    TRUE ~ "#000000"
  )
)

base_plot <- ggplot(processed_data, aes(x = modtr, y = estimate, fill = domain, alpha = level)) +
  geom_col(position = position_dodge(width = 0.8)) +
  geom_errorbar(aes(ymin = conf.low, ymax = conf.high), position = position_dodge(width = 0.8), width = 0.5) +
  geom_hline(yintercept = 0, linetype = "dashed", color = "gray50") +
  scale_fill_manual(
    values = setNames(processed_data$colors, processed_data$domain),
    guide = guide_legend(
      position = "bottom",
      ncol = 4,
      direction = "vertical")) +
  scale_alpha_manual(
    values = c("Individual" = 1, "Country" = 0.4),
    guide = guide_legend(
      position = "bottom",
      ncol = 1,
      direction = "vertical")) +
  labs(x = NULL, y = "Estimate", fill = "Trait", alpha = "Level")

```

```

#add here different plot versions

if(plot_type=="domain dependent"){
  final_plot <- base_plot +
    labs(caption = paste(toTitleCase(plot_type), "view"))+
    #domain dependent order
  scale_x_discrete(
    limits = unique(processed_data$modtr),
    labels = function(x) {
      sapply(x, function(label) {
        color <- processed_data$colors[processed_data$modtr == label][1]
        sprintf("<span style='color: %s'>%s</span>", color, label)
      })
    }
  ) +
  theme_bw() +
  theme(axis.text.y = element_markdown(size = 11),
    text = element_text(family="serif", size = 10)) +
  coord_flip()
}else if(plot_type=="domain independent"){

  get_color_mapping <- function(data) {
data %>%
  arrange(desc(avg_abs_estimate)) %>%
  distinct(modtr, .keep_all = TRUE) %>%
  select(modtr, colors) %>%
  deframe()
}

# Get the color mapping
color_mapping <- get_color_mapping(processed_data)

  final_plot <- base_plot +
    labs(caption = paste(toTitleCase(plot_type), "view"))+
    # domain independent order
  theme_bw() +
  coord_flip()+
  theme(text = element_text(family="serif", size = 10),
    axis.text.y = element_markdown(size = 11,
      color = color_mapping[levels(processed_data$modtr)]
    ))
}else{
  stop("Invalid plot type. Choose either 'domain dependent' or 'domain independent'.")
}
return(final_plot)
}

cni.contMod_plot_details <-
cni.contMod_tbl_details %>%
  split(.$CNI_type) %>%
  map_dfr(~ {

```

```

if (first(.x$CNI_type) == "Mindset") {
  crossing(.x,
    view = c("Domain Independent", "Domain Dependent"),
    association_type = c("Linear", "Quadratic"))
} else if (first(.x$CNI_type) == "Personality") {
  crossing(.x,
    association_type = c("Linear", "Quadratic")) %>%
  mutate(view = NA_character_)
} else {
  # For any other CNI_type, keep rows as is
  .x %>% mutate(view = NA_character_, association_type = NA_character_)
}
})

```

4.3.3 Five Strongest moderators

```

cni_types <- unique(sub("CNI.*", "CNI", names(all_cni.contMod_effects)))

strongest5_contMods <- function(cni_type, data_list) {
  df_names <- grep(paste0("^", cni_type),
    names(data_list), value = TRUE)

  bind_rows(data_list[df_names], .id = "modtr_type") %>%
  arrange(desc(abs(estimate))) %>%
  filter(p.value < .05) %>%
  slice_head(n = 5)
}

# Apply the function to each CNI type
strongest5_contMods_CNI <-
  map_dfr(cni_types, ~strongest5_contMods(.x, all_cni.contMod_effects)) %>%
  specify_var_names() %>%
  with_groups(modtr, ~ mutate(.x, avg_abs_estimate = mean(abs(estimate)))) %>%
  mutate(modtr = fct_reorder(modtr, avg_abs_estimate, .desc = FALSE)) %>%
  select(-term, -variable) %>%
  mutate(cni_type = str_extract(modtr_type, "[^\\.]+")) %>%
  mutate(label_color = case_when(
    str_detect(modtr_type, "\\..pty_effects$") ~ "#c76e00",
    str_detect(modtr_type, "\\..mindset_effects$") ~ "#008000",
    TRUE ~ "black"
  ))

modtr_order <- strongest5_contMods_CNI %>%
  group_by(modtr) %>%
  summarize(mean_estimate = mean(estimate)) %>%
  arrange(mean_estimate) %>%
  pull(modtr)

strongest5_contMods_CNI <- strongest5_contMods_CNI %>%
  mutate(modtr = factor(modtr, levels = modtr_order))

```

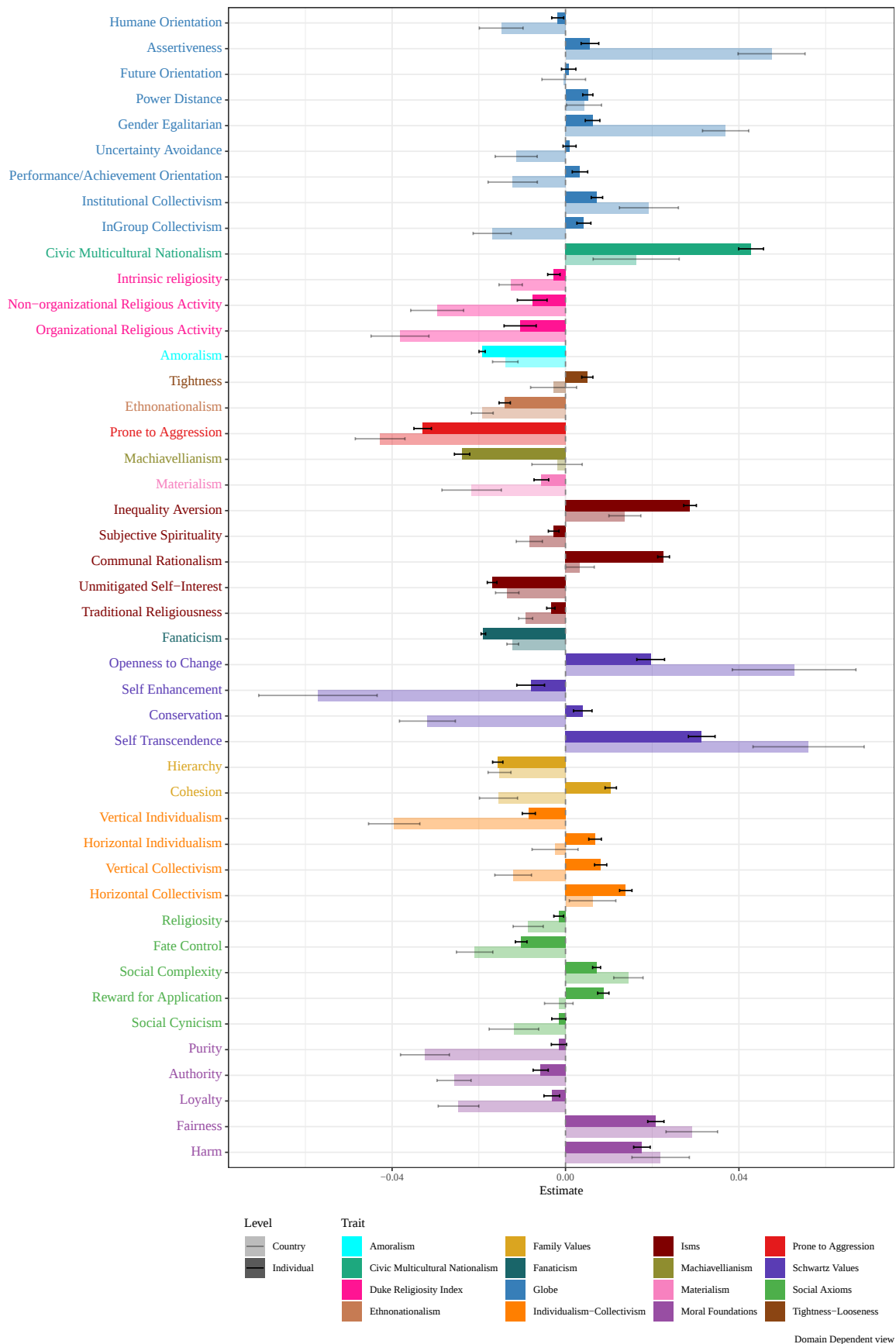


Figure 28: Domain Dependent view for Linear effects: Associations between Fanaticism-Mindset CNI and Mindset variables

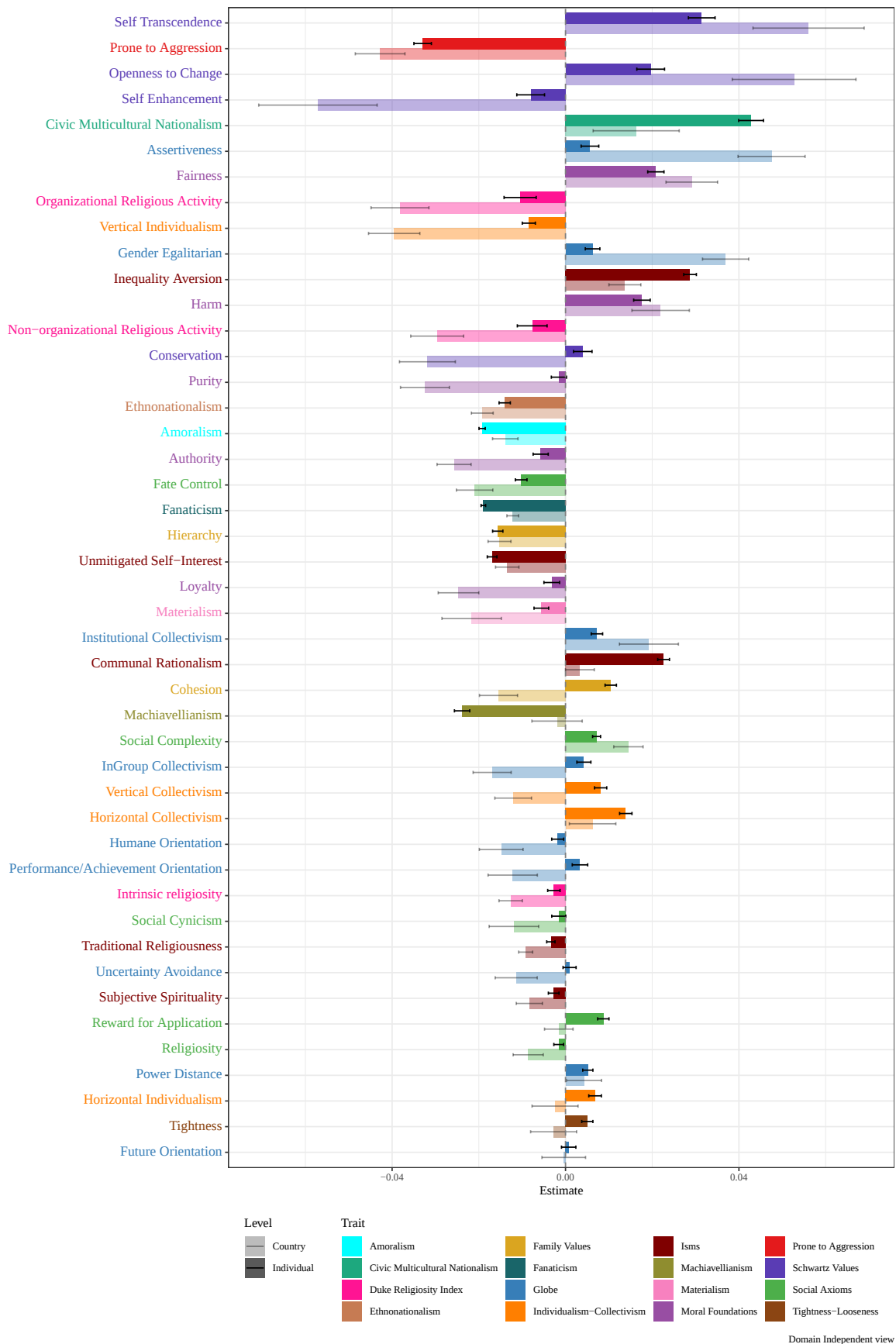
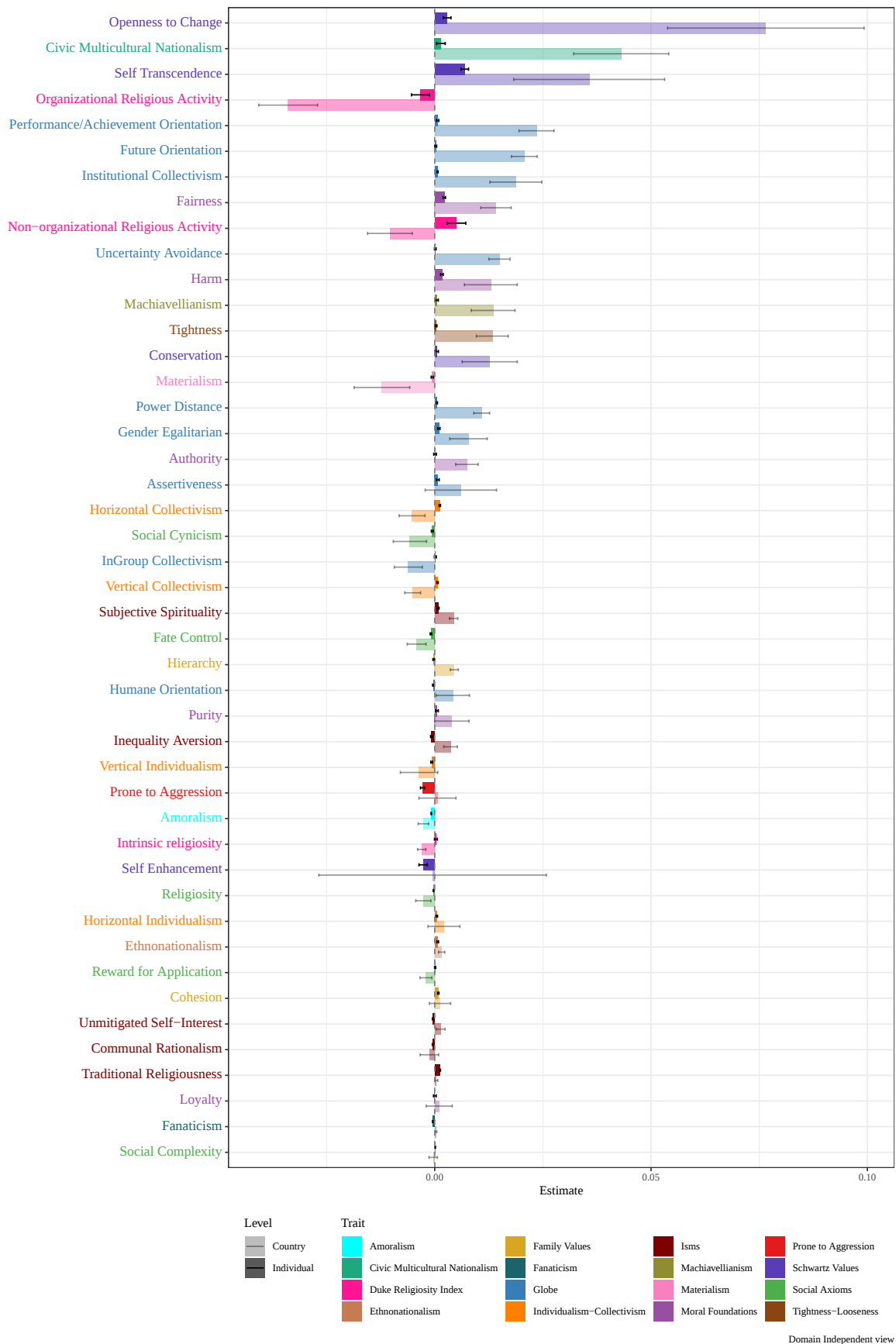


Figure 30: Domain Independent view for Linear effects: Associations between Fanaticism-Mindset CNI and Mindset variables



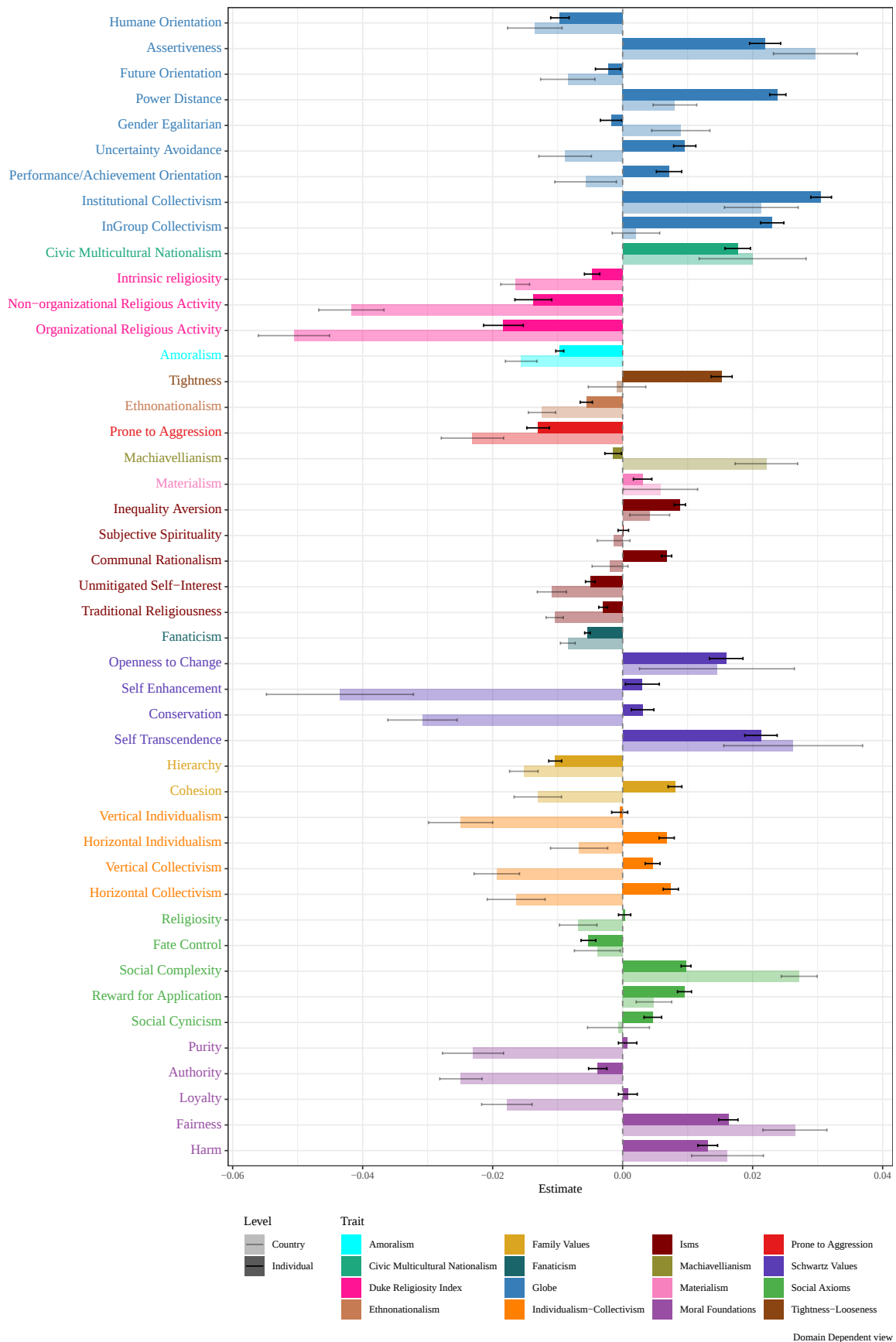


Figure 32: Domain Dependent view for Linear effects: Associations between Globe-Mindset CNI and Mindset variables

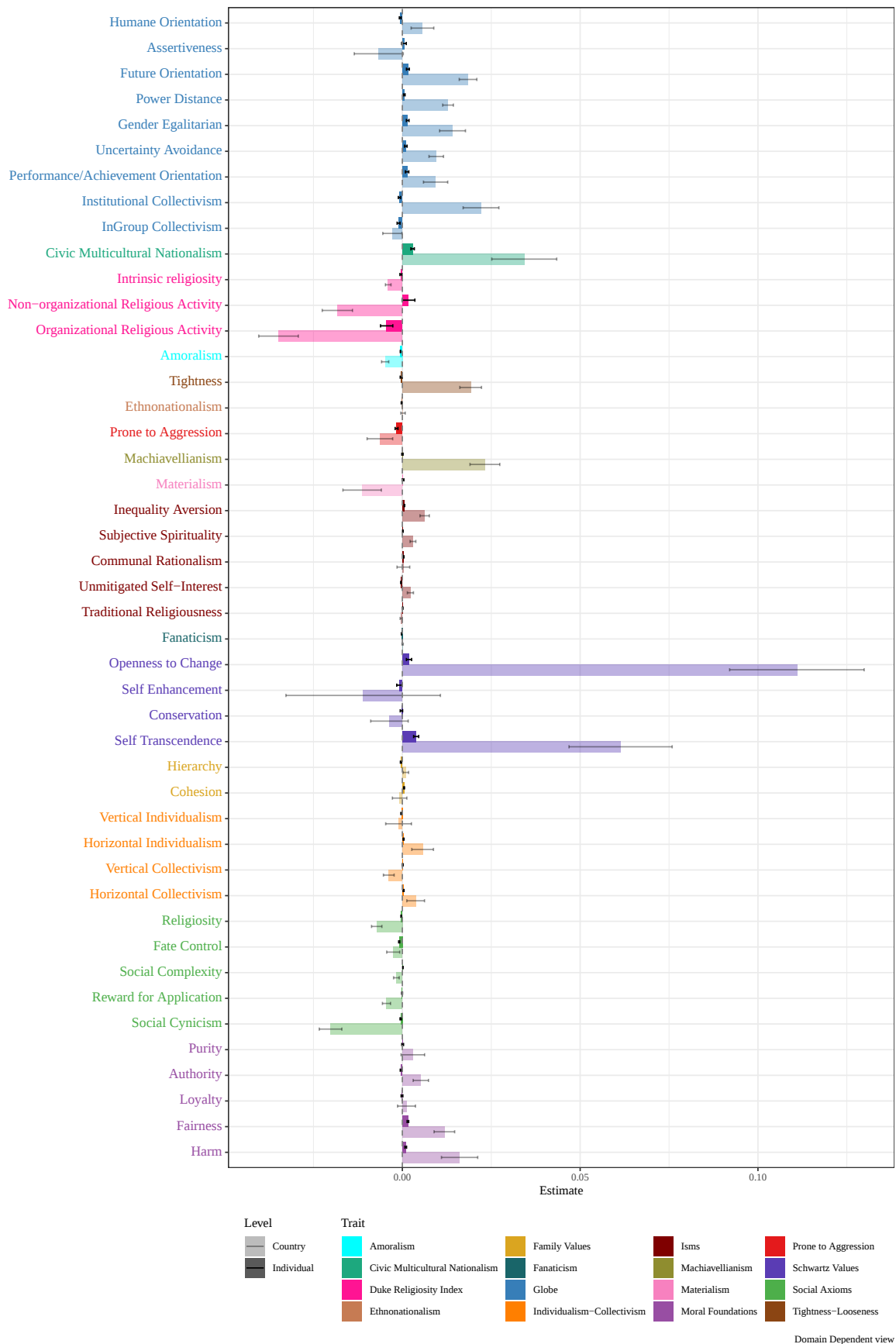
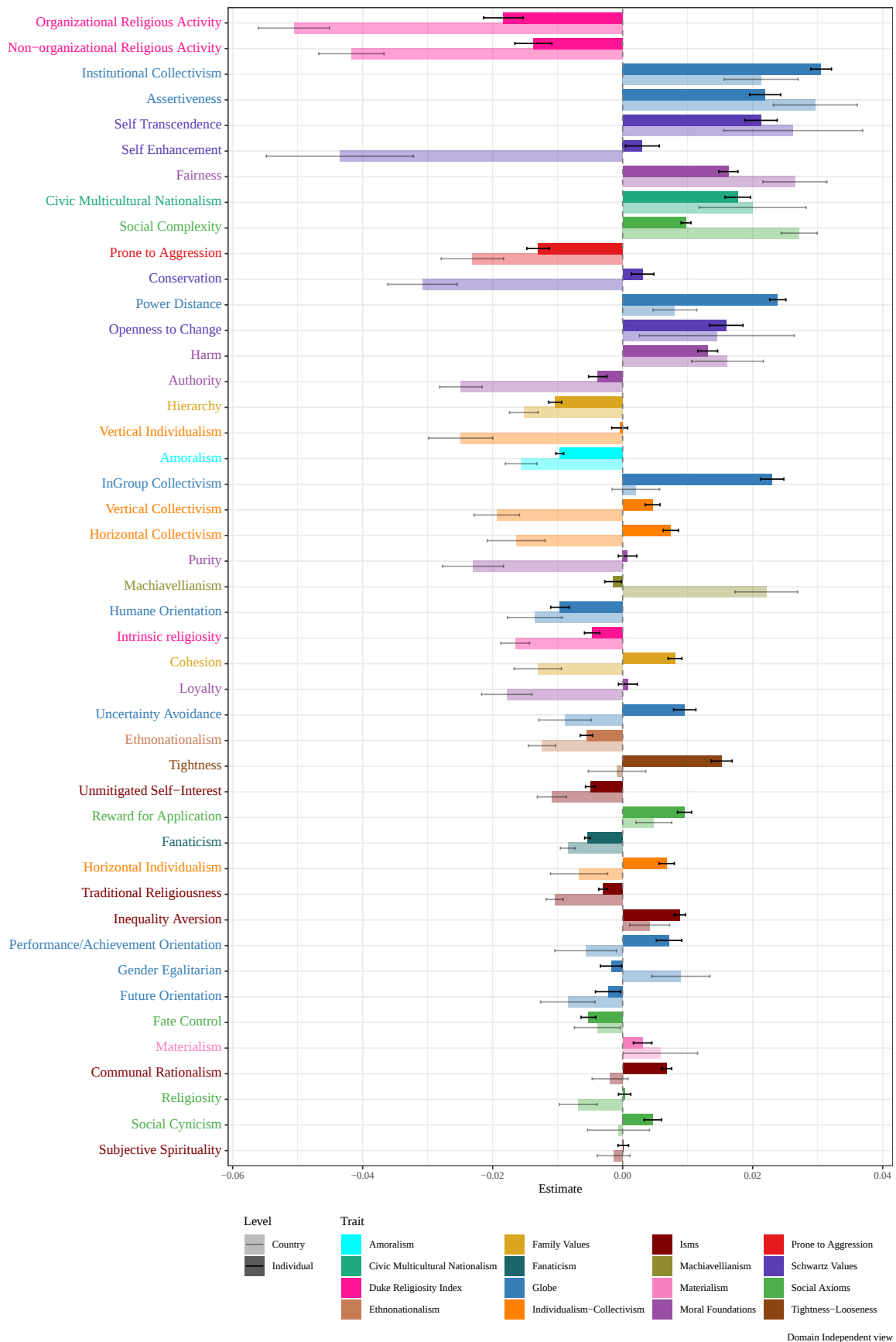


Figure 33: Domain Dependent view for Quadratic effects: Associations between Globe-Mindset CNI and Mindset variables



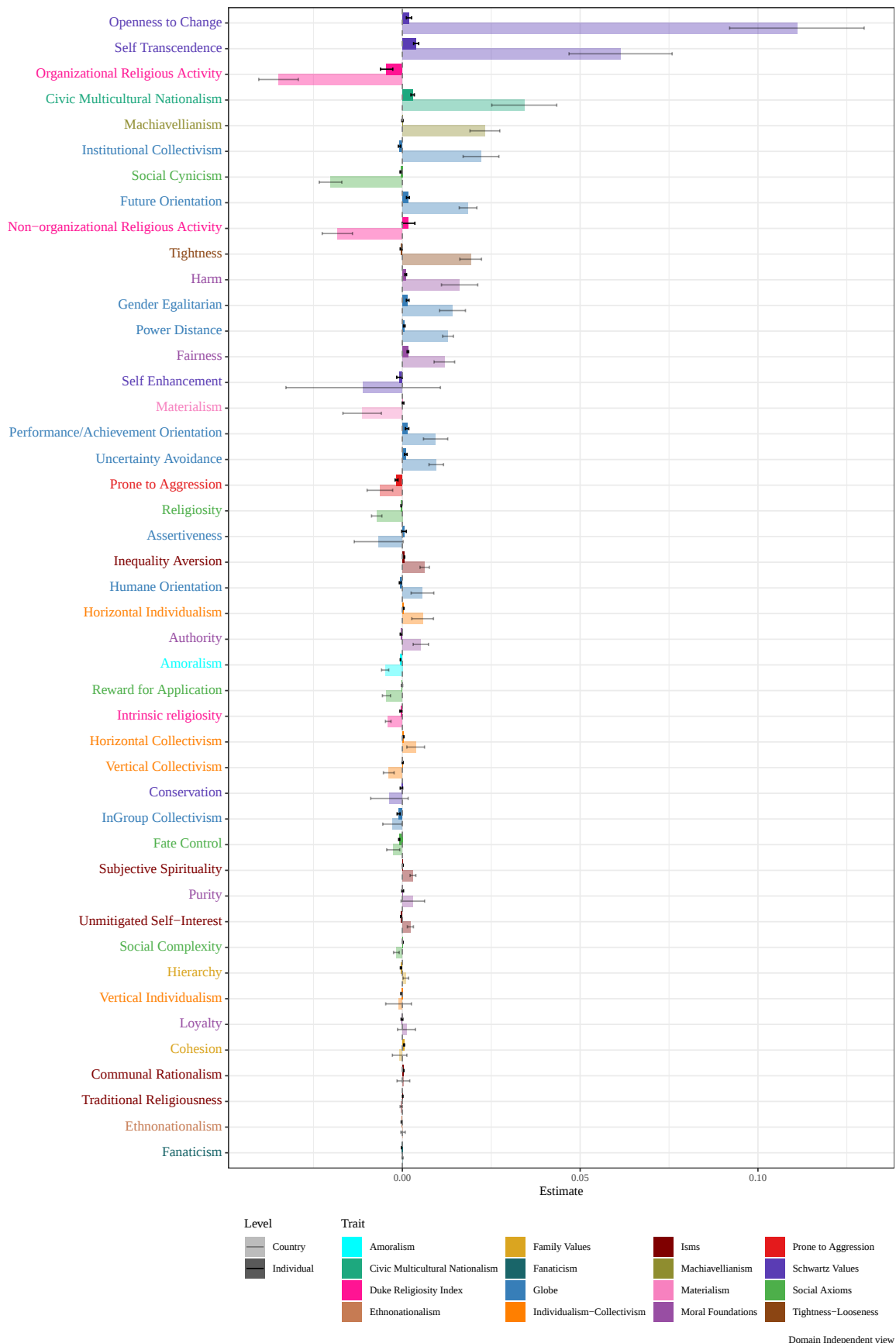


Figure 35: Domain Independent view for Quadratic effects: Associations between Globe-Mindset CNI and Mindset variables

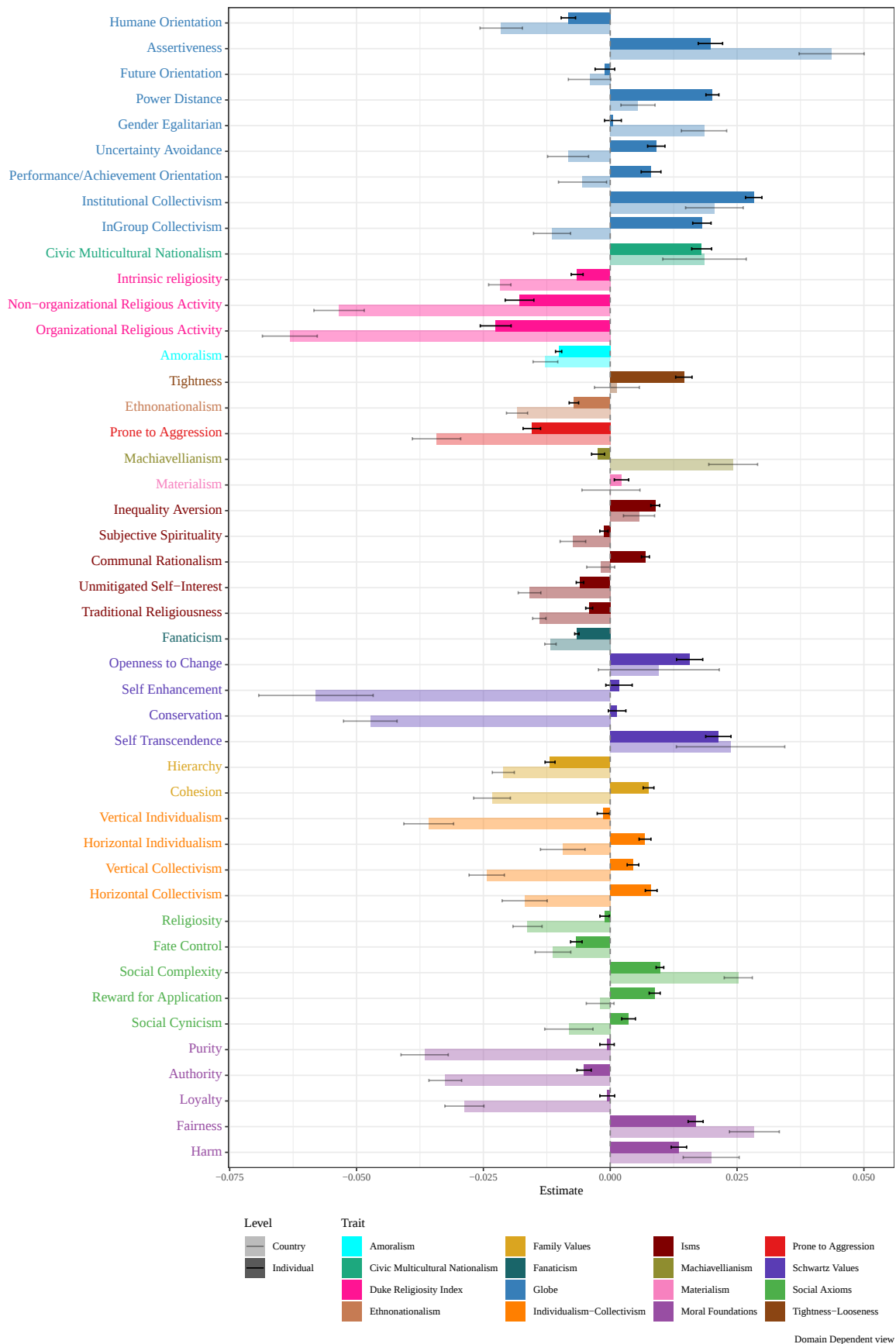


Figure 36: Domain Dependent view for Linear effects: Associations between Globe (Extra items) and Mindset variables

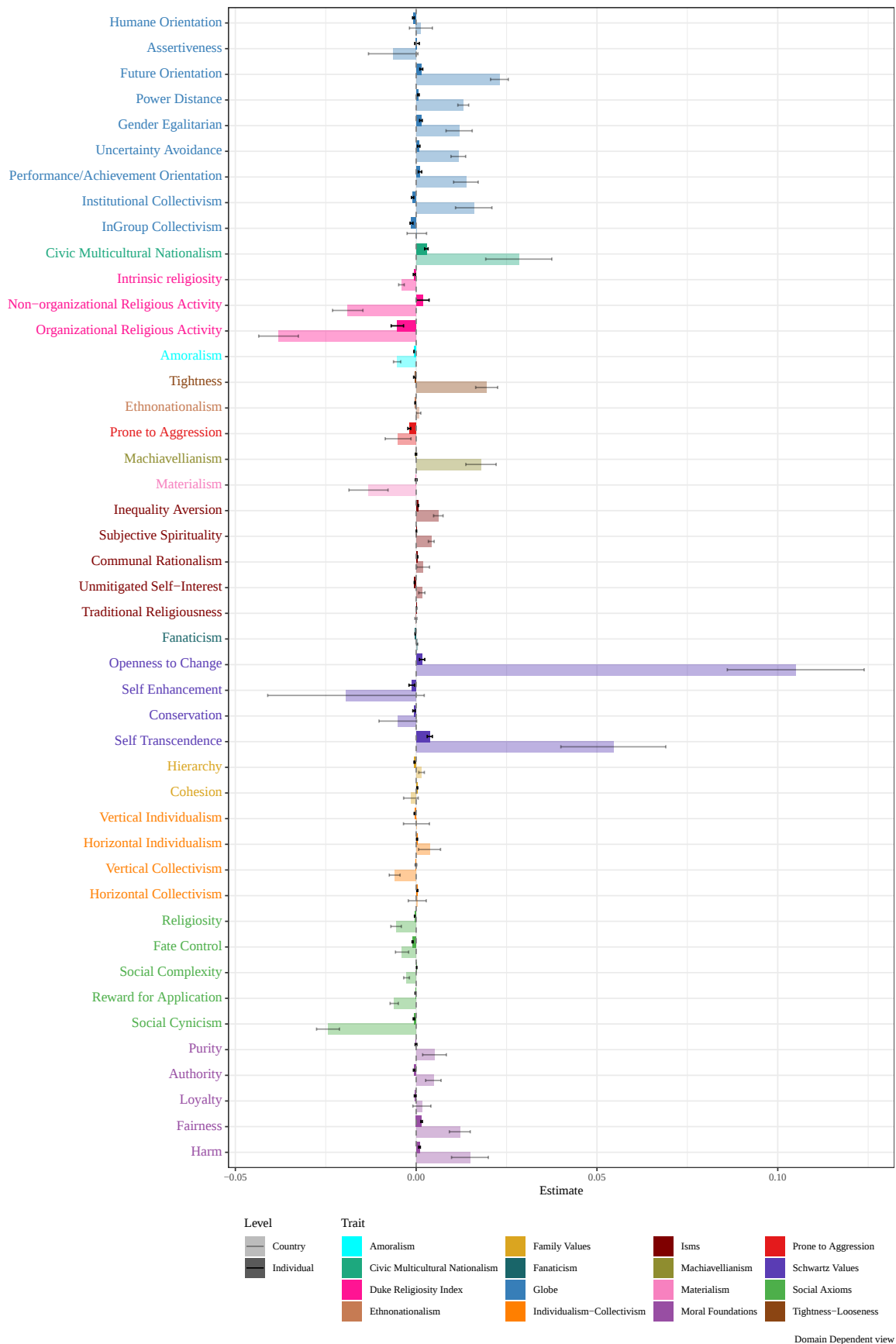


Figure 37: Domain Dependent view for Quadratic effects: Associations between Globe (Extra items) and Mindset variables

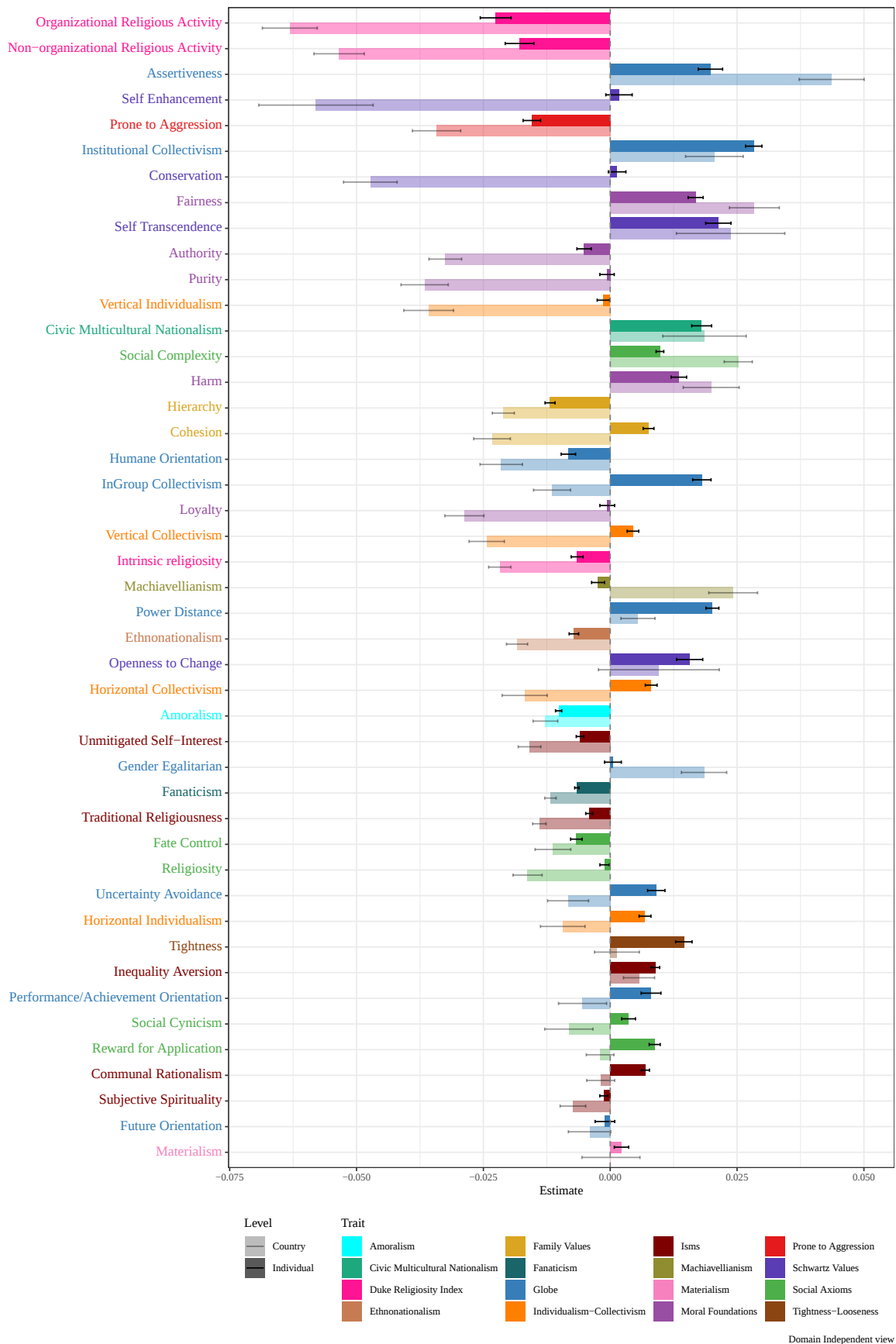


Figure 38: Domain Independent view for Linear effects: Associations between Globe (Extra items) and Mindset variables

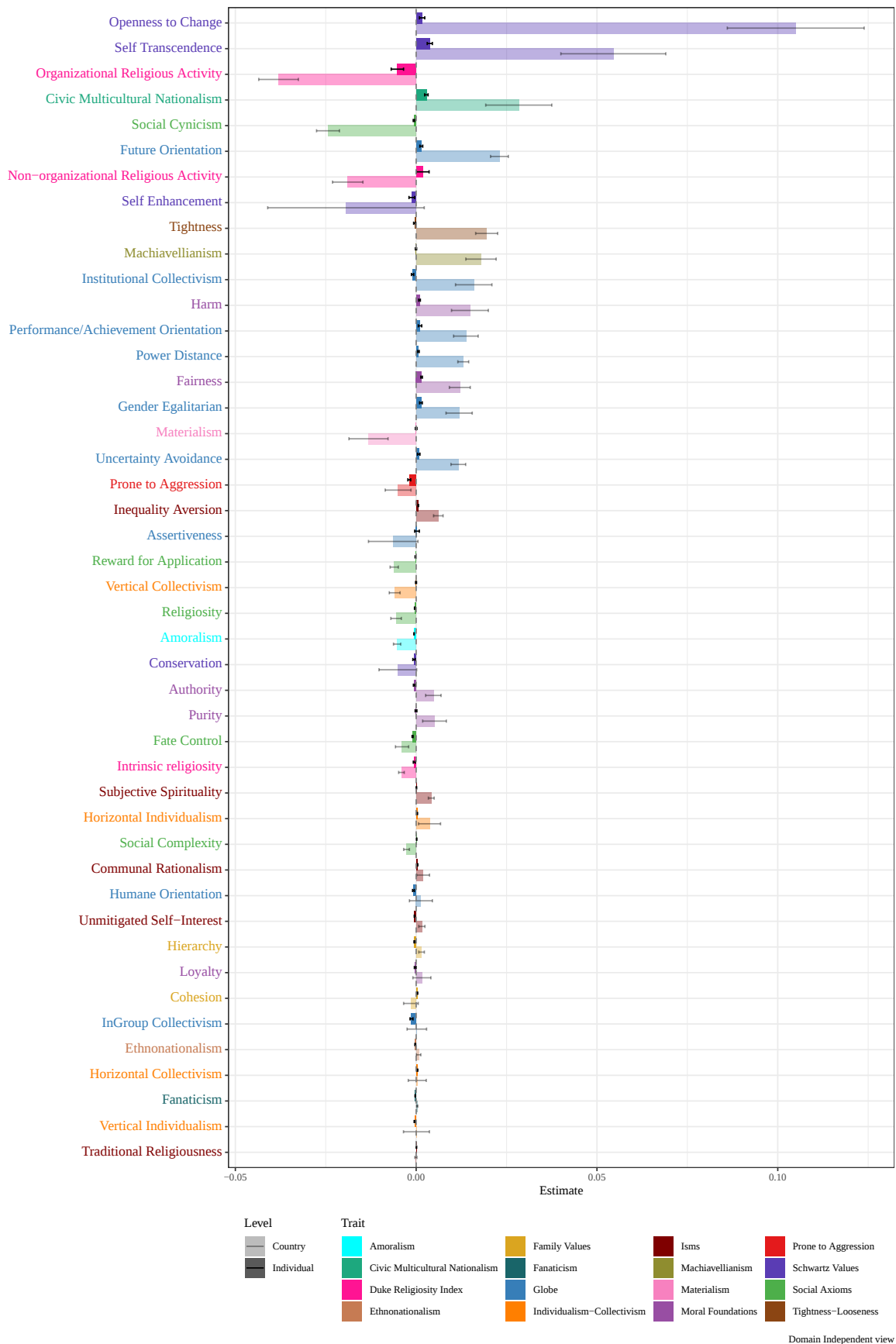


Figure 39: Domain Independent view for Quadratic effects: Associations between Globe (Extra items) and Mindset variables

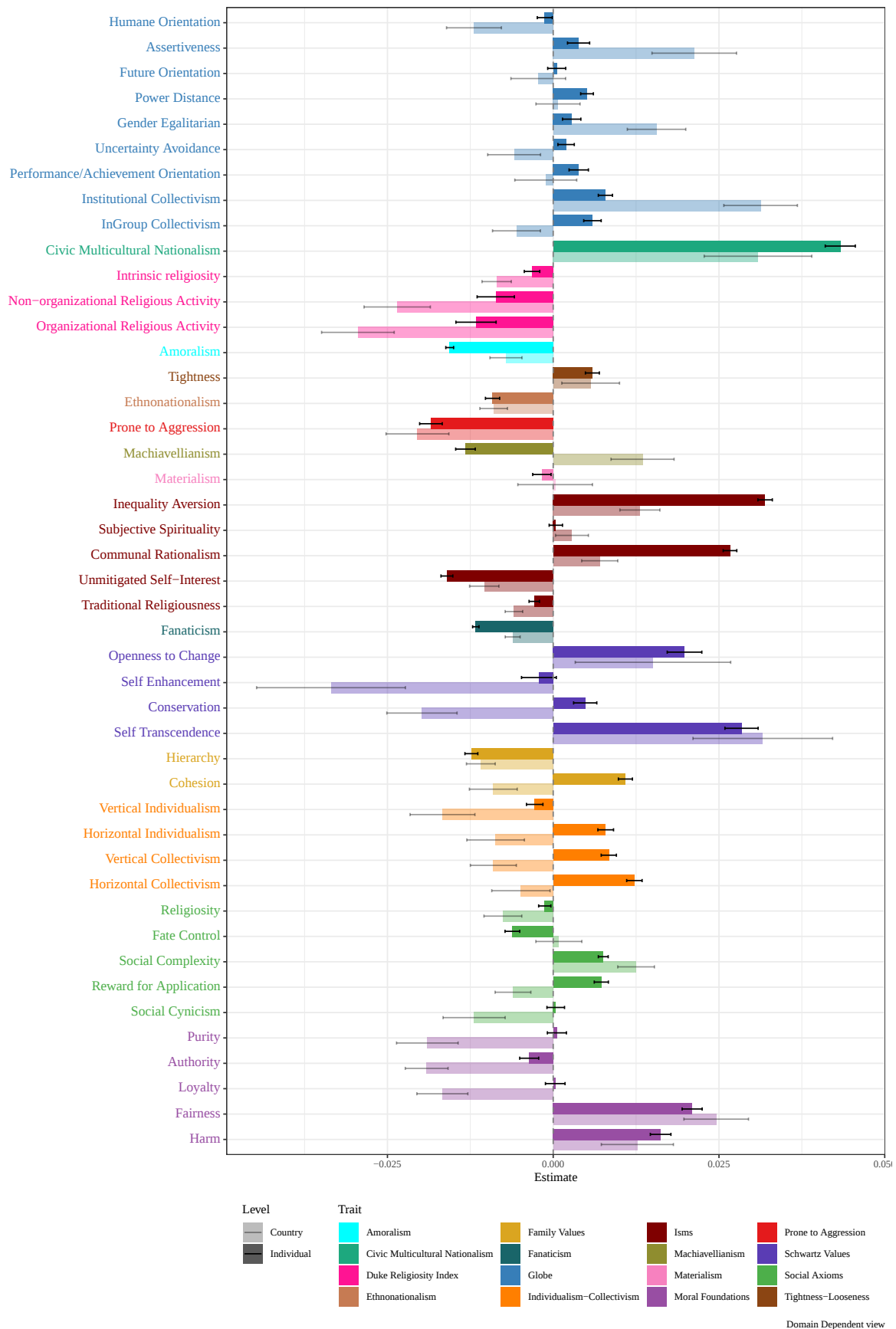


Figure 40: Domain Dependent view for Linear effects: Associations between Isms-Mindset CNI and Mindset variables

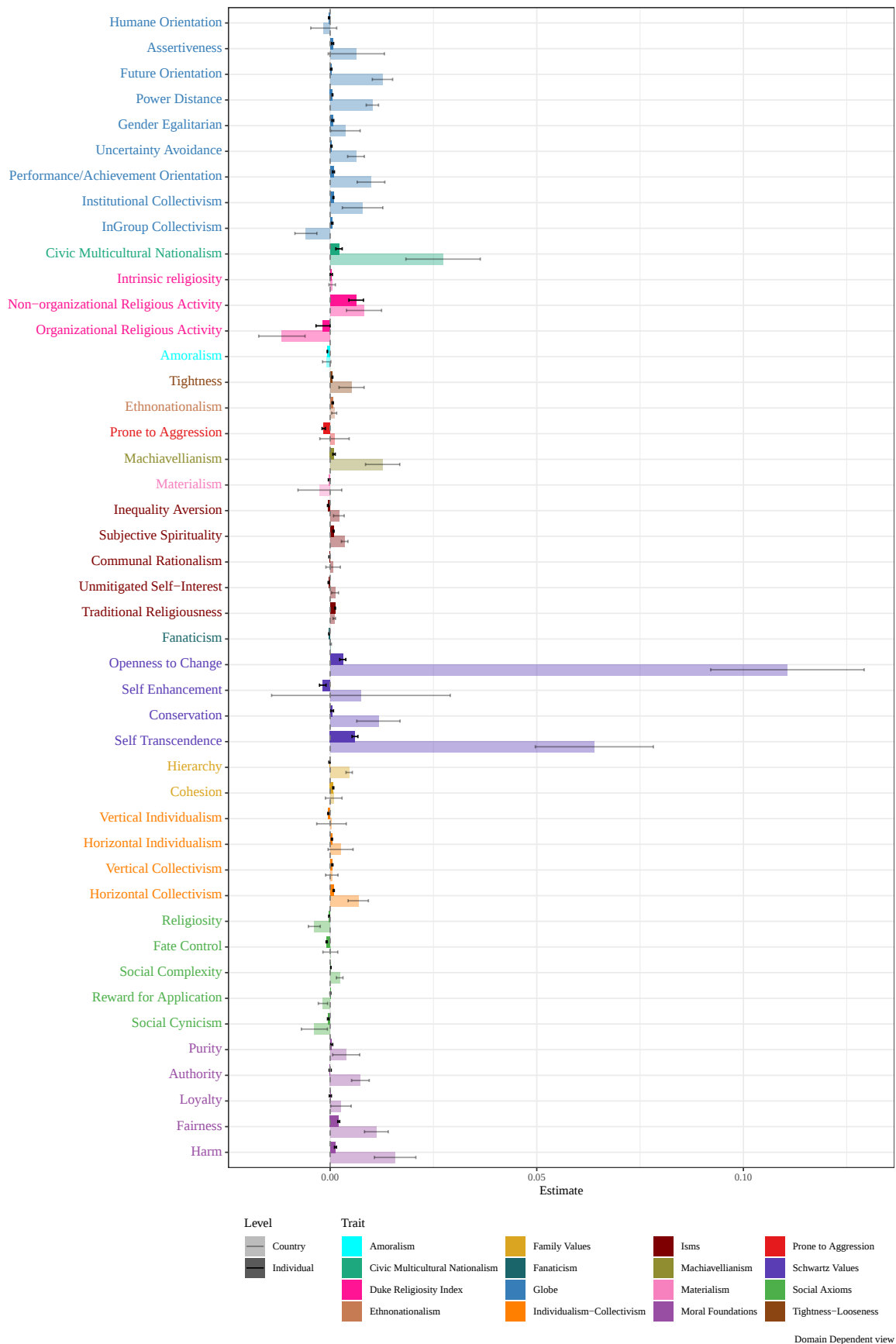


Figure 41: Domain Dependent view for Quadratic effects: Associations between Isms-Mindset CNI and Mindset variables

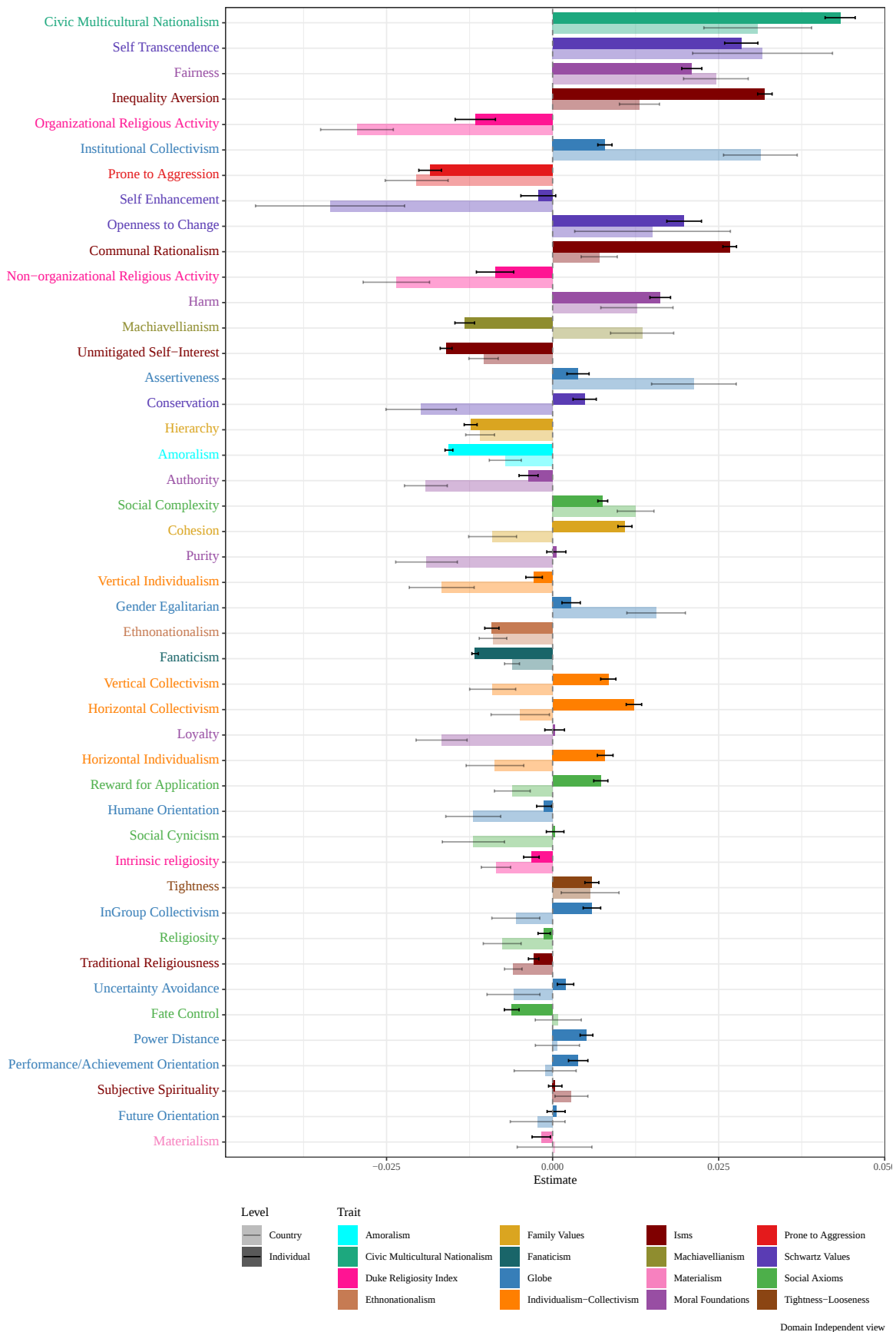


Figure 42: Domain Independent view for Linear effects: Associations between Isms-Mindset CNI and Mindset variables

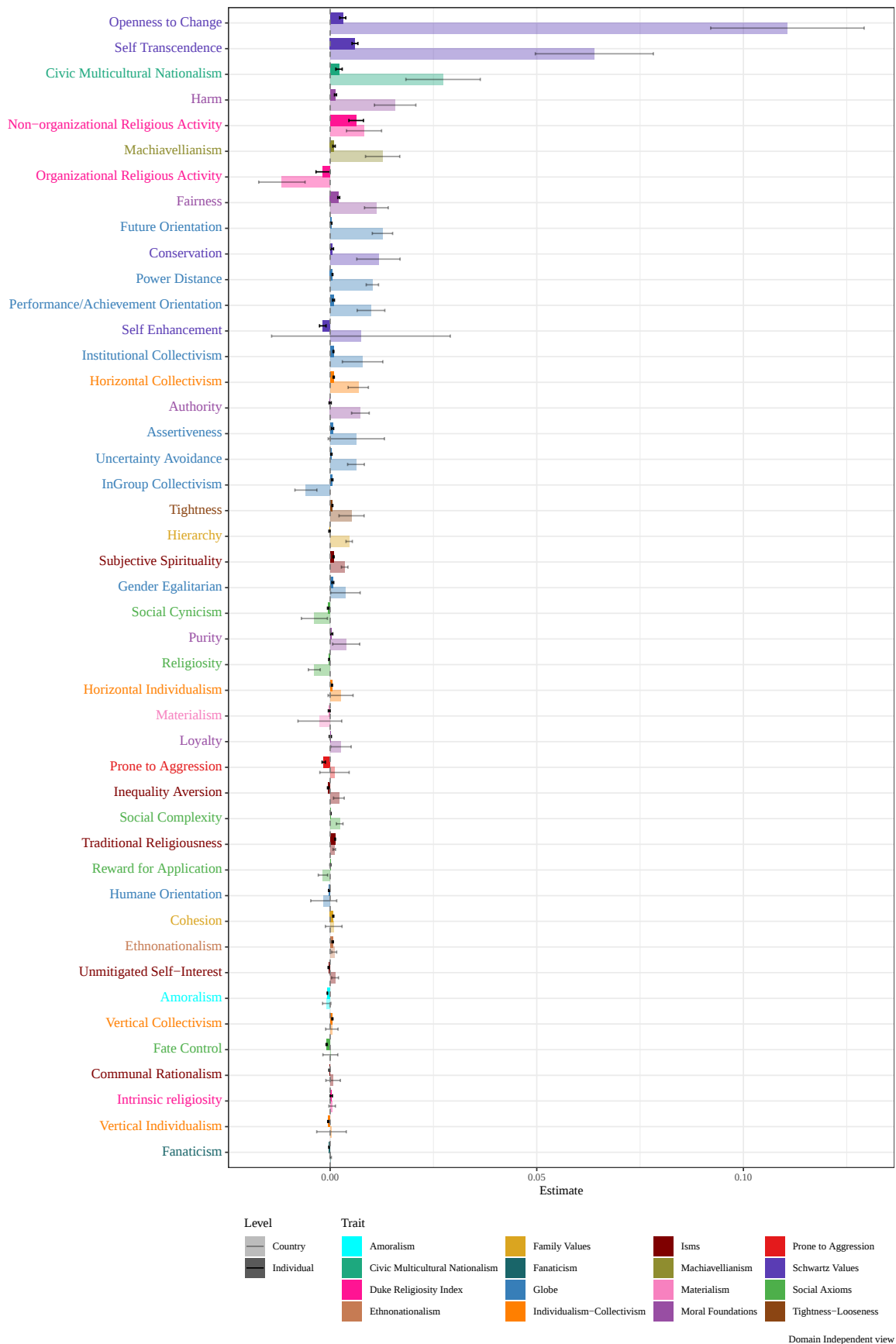


Figure 43: Domain Independent view for Quadratic effects: Associations between Isms-Mindset CNI and Mindset variables

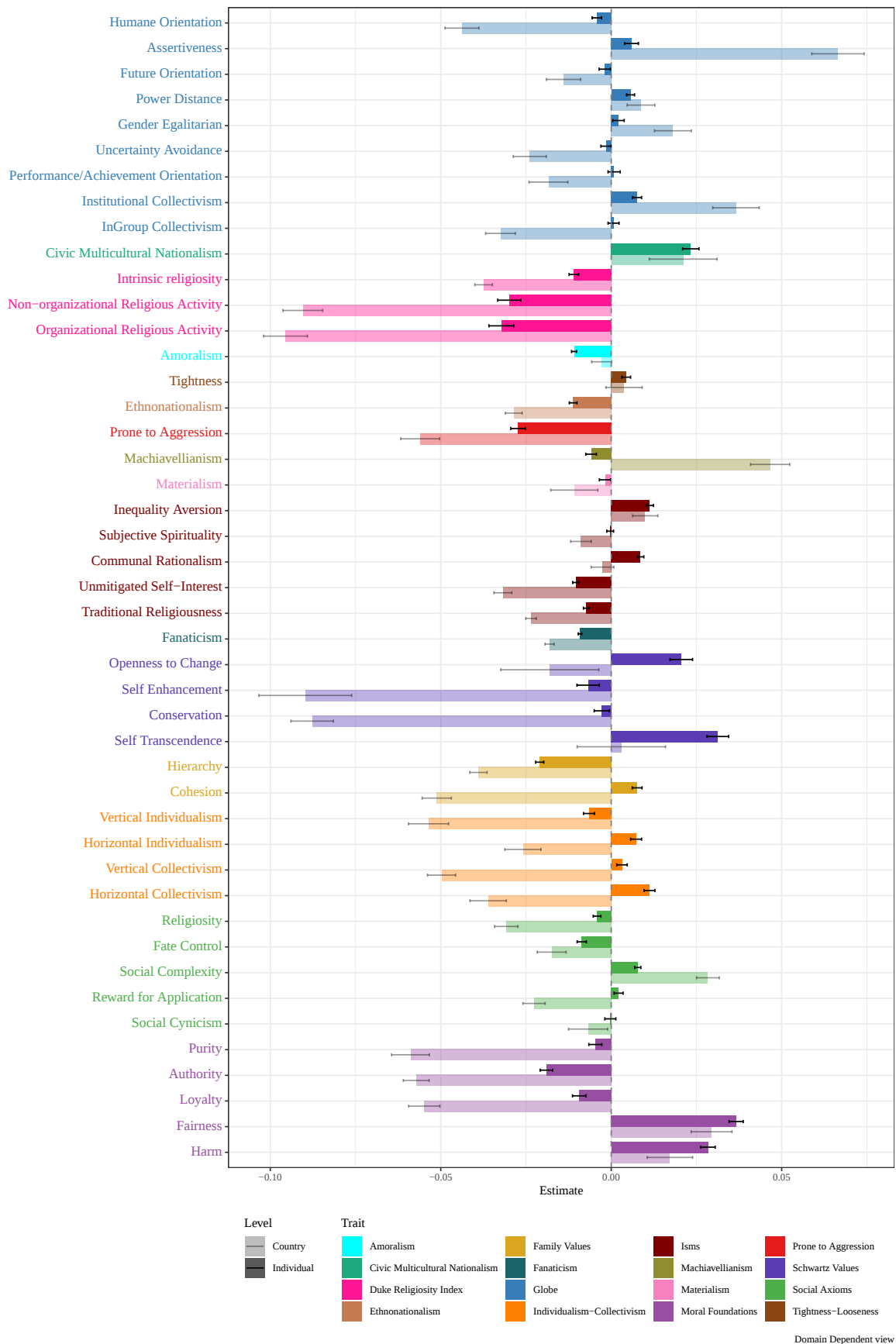


Figure 44: Domain Dependent view for Linear effects: Associations between Moral Foundations-Mindset CNI and Mindset variables

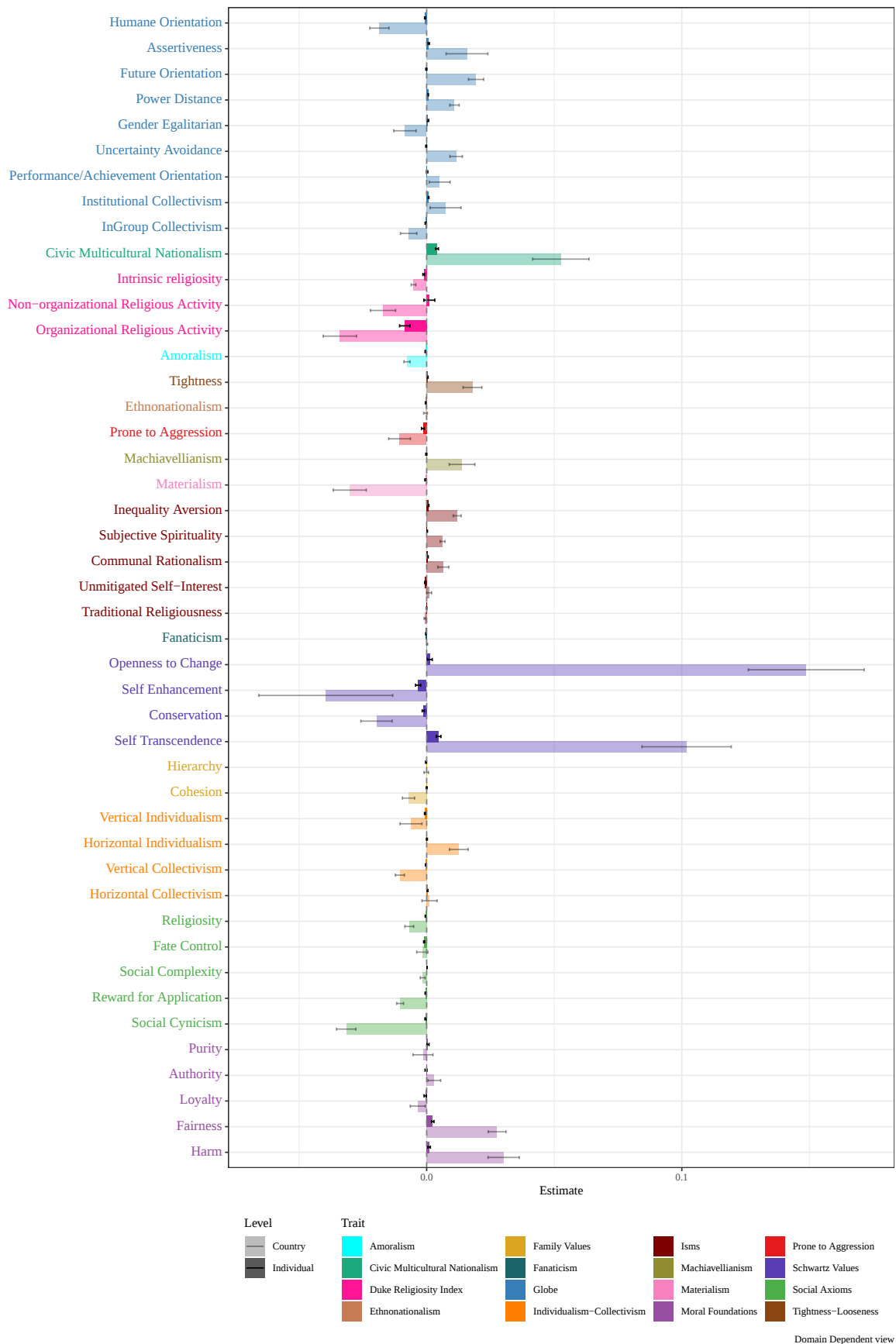


Figure 45: Domain Dependent view for Quadratic effects: Associations between Moral Foundations-Mindset CNI and Mindset variables

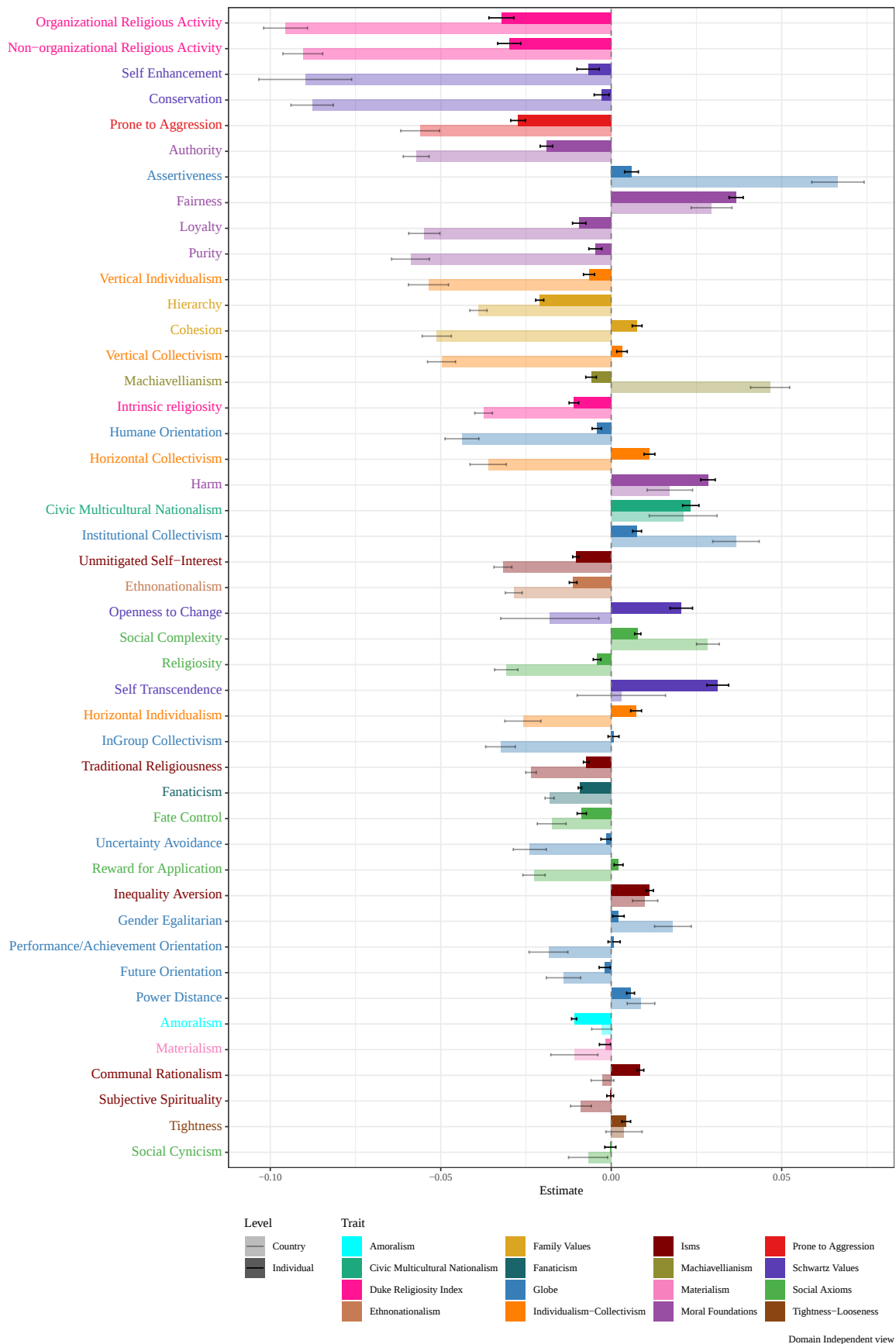
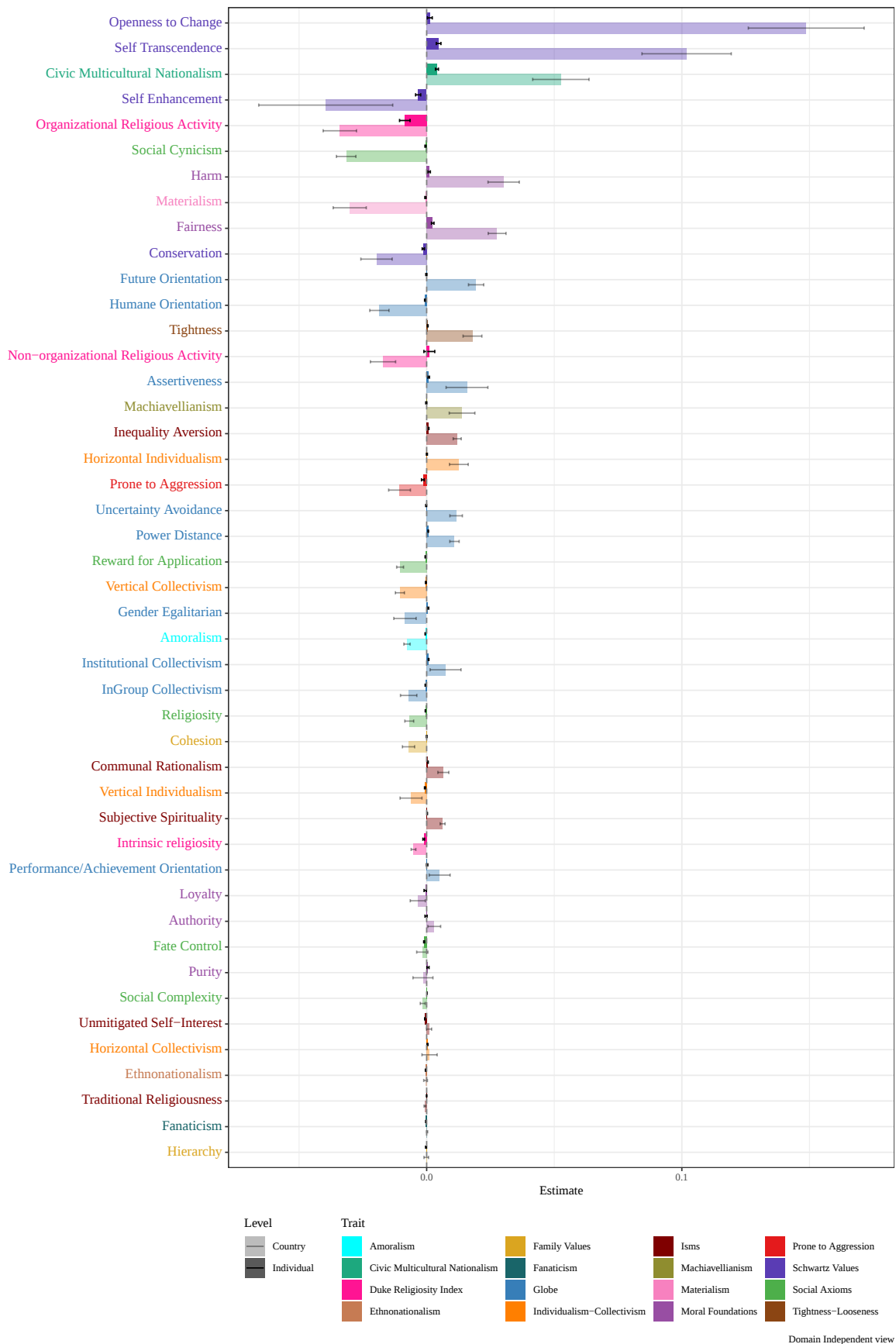


Figure 46: Domain Independent view for Linear effects: Associations between Moral Foundations-Mindset CNI and Mindset variables



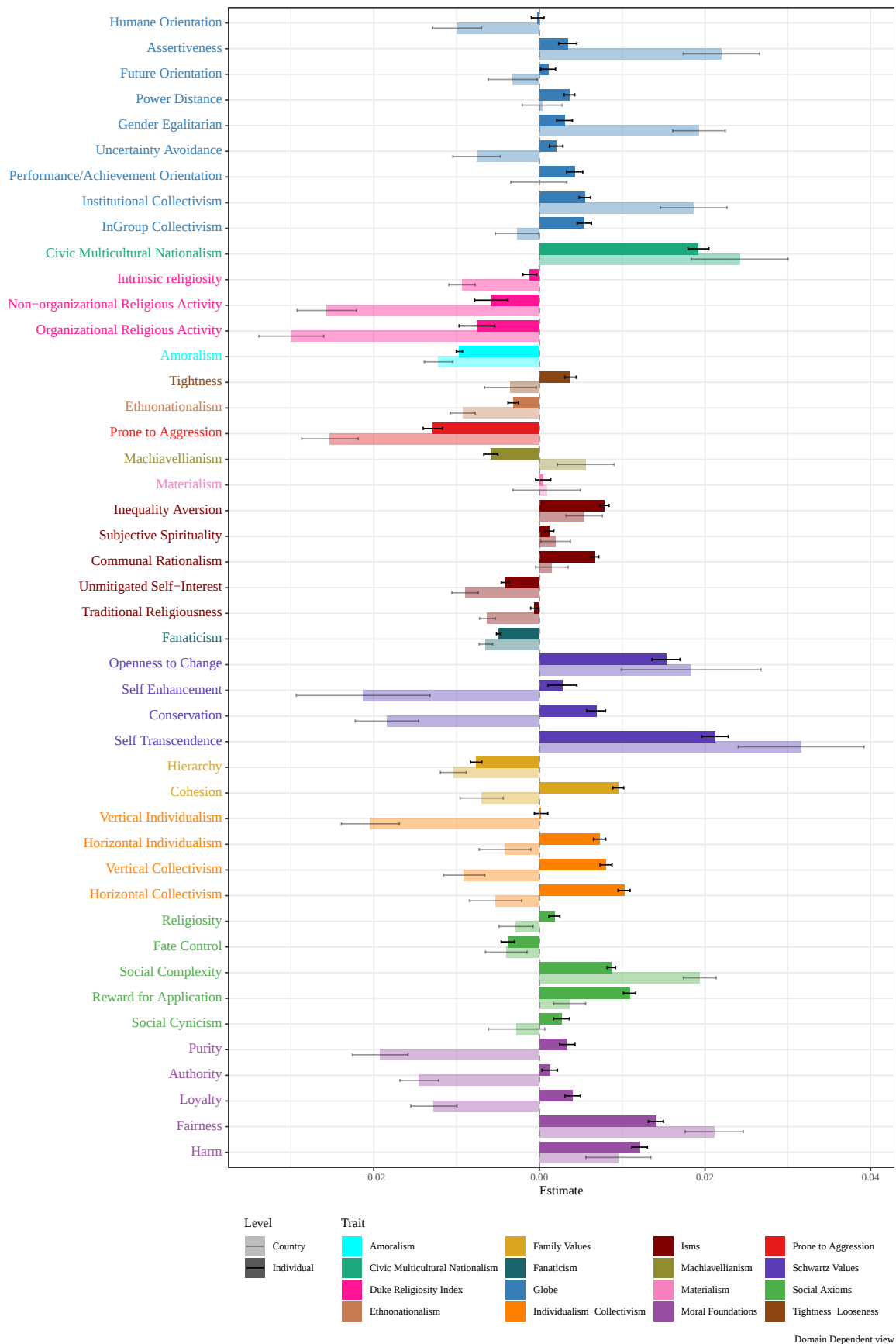


Figure 48: Domain Dependent view for Linear effects: Associations between Mindset CNI and Mindset variables

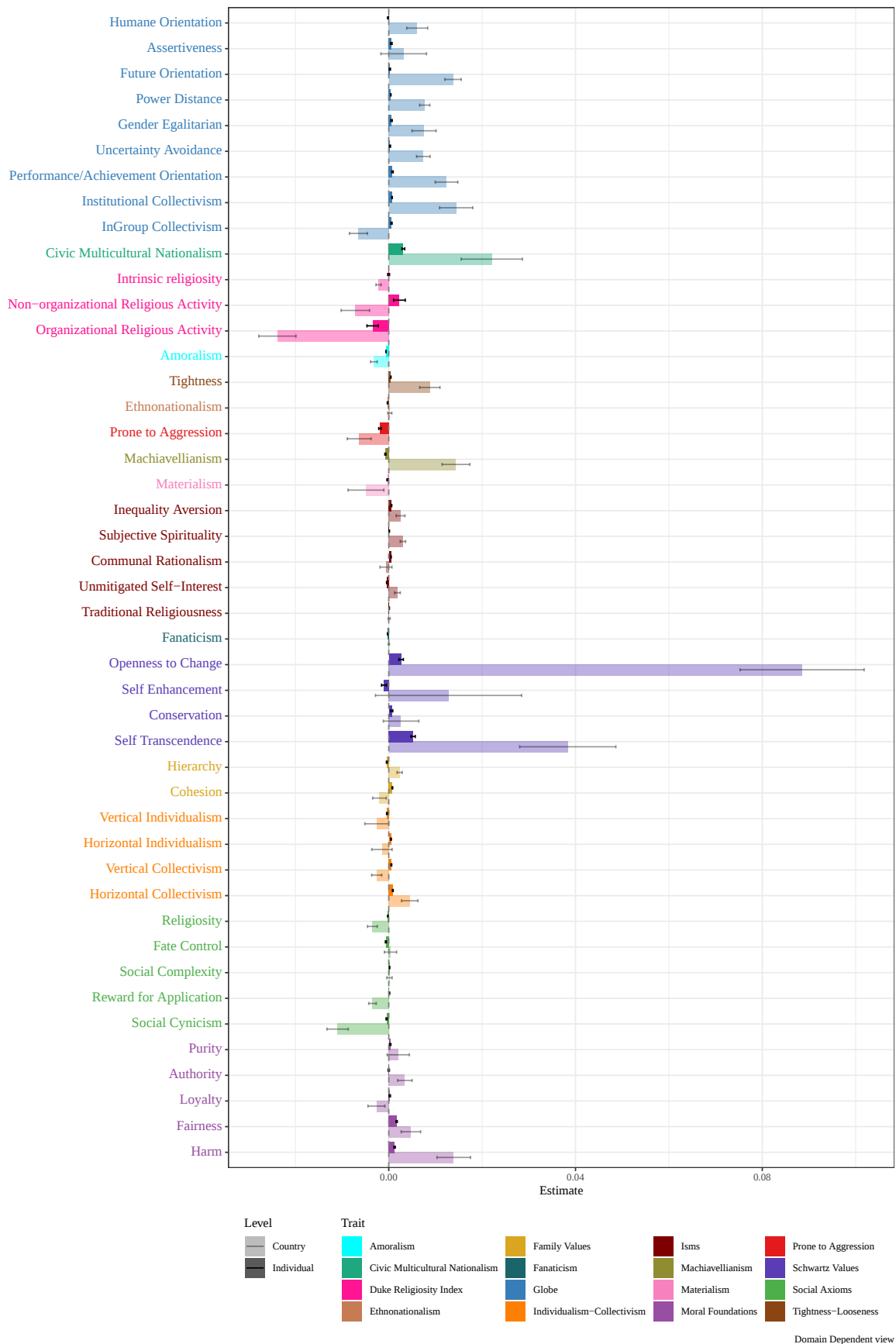


Figure 49: Domain Dependent view for Quadratic effects: Associations between Mindset CNI and Mindset variables

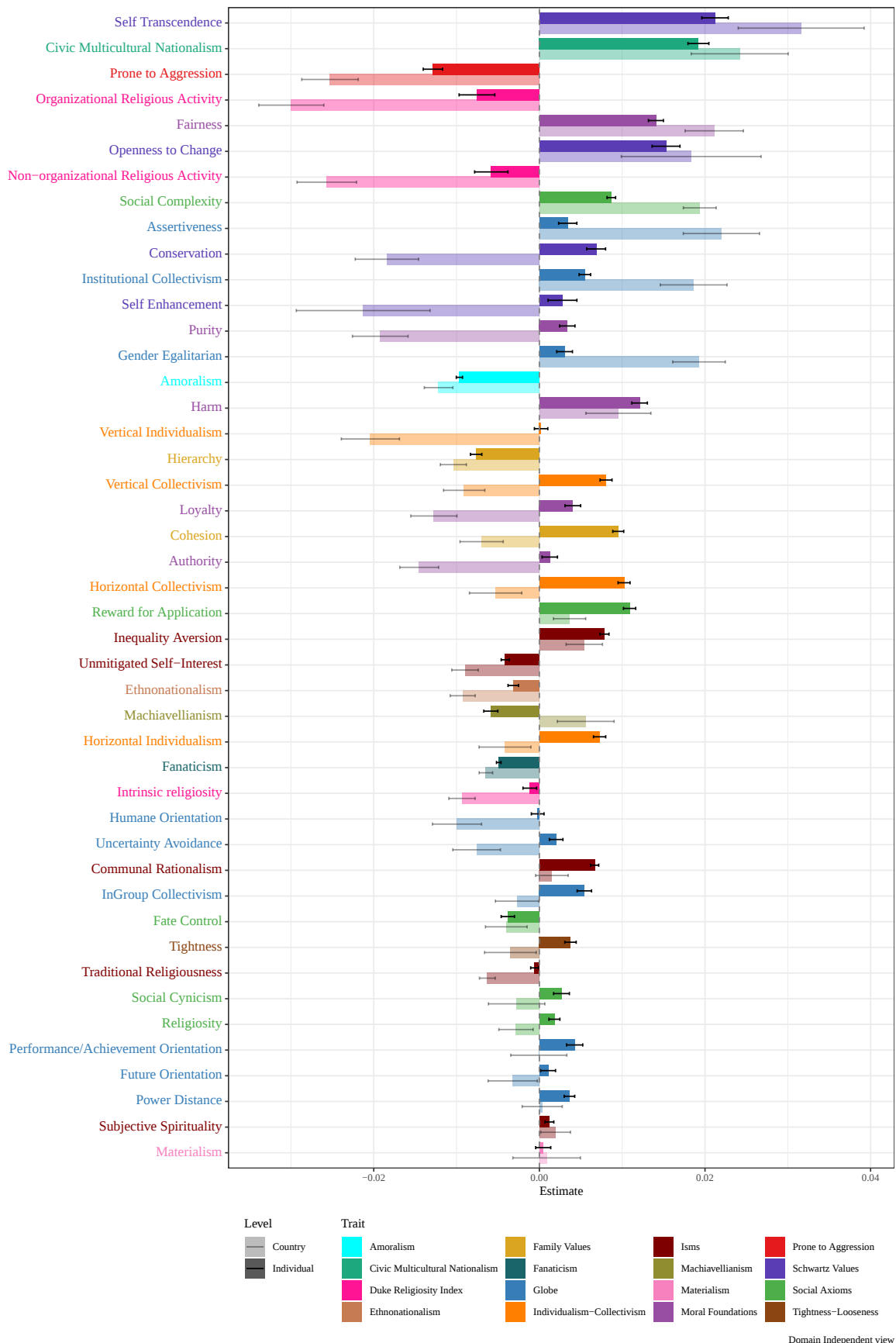


Figure 50: Domain Independent view for Linear effects: Associations between Mindset CNI and Mindset variables

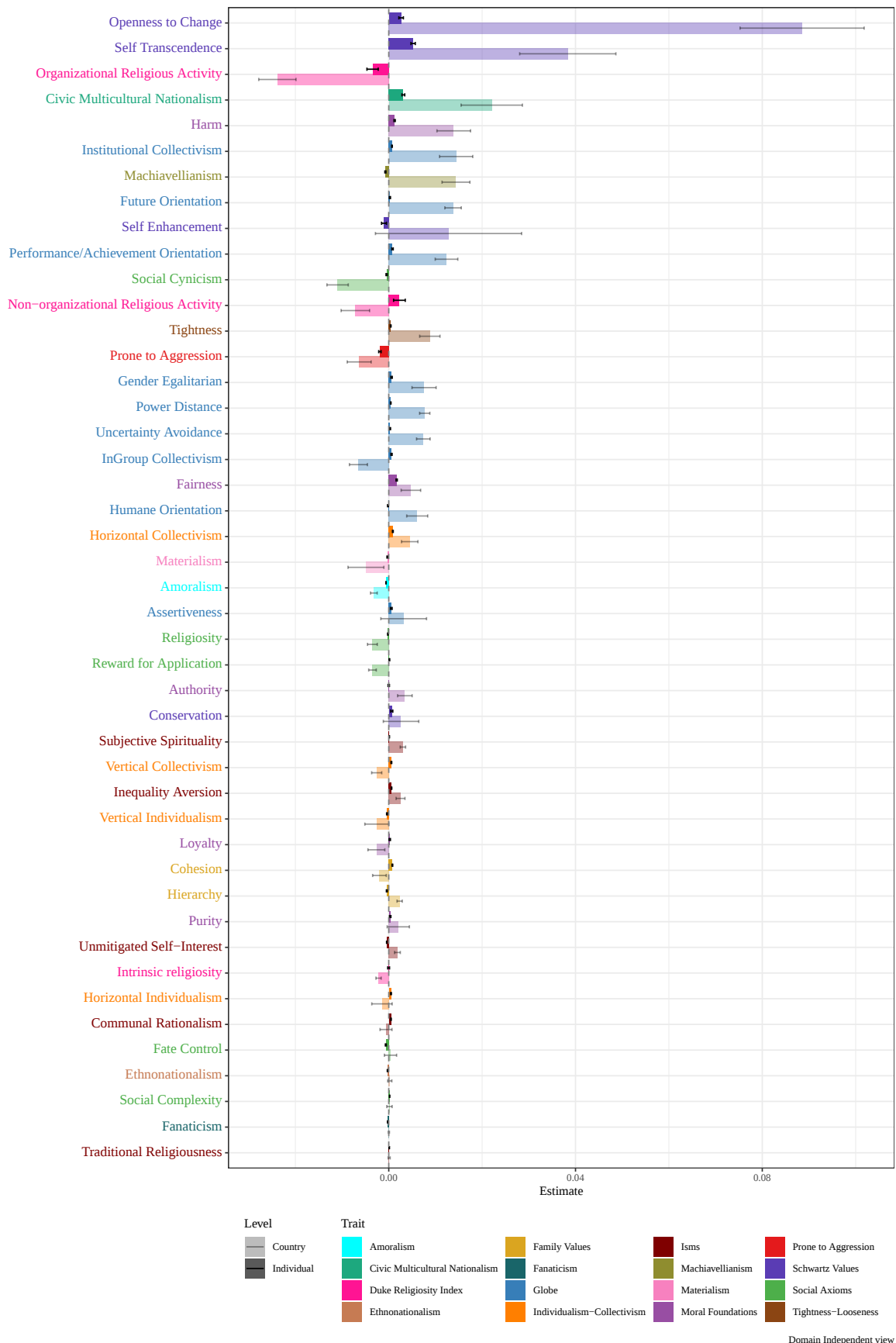


Figure 51: Domain Independent view for Quadratic effects: Associations between Mindset CNI and Mindset variables

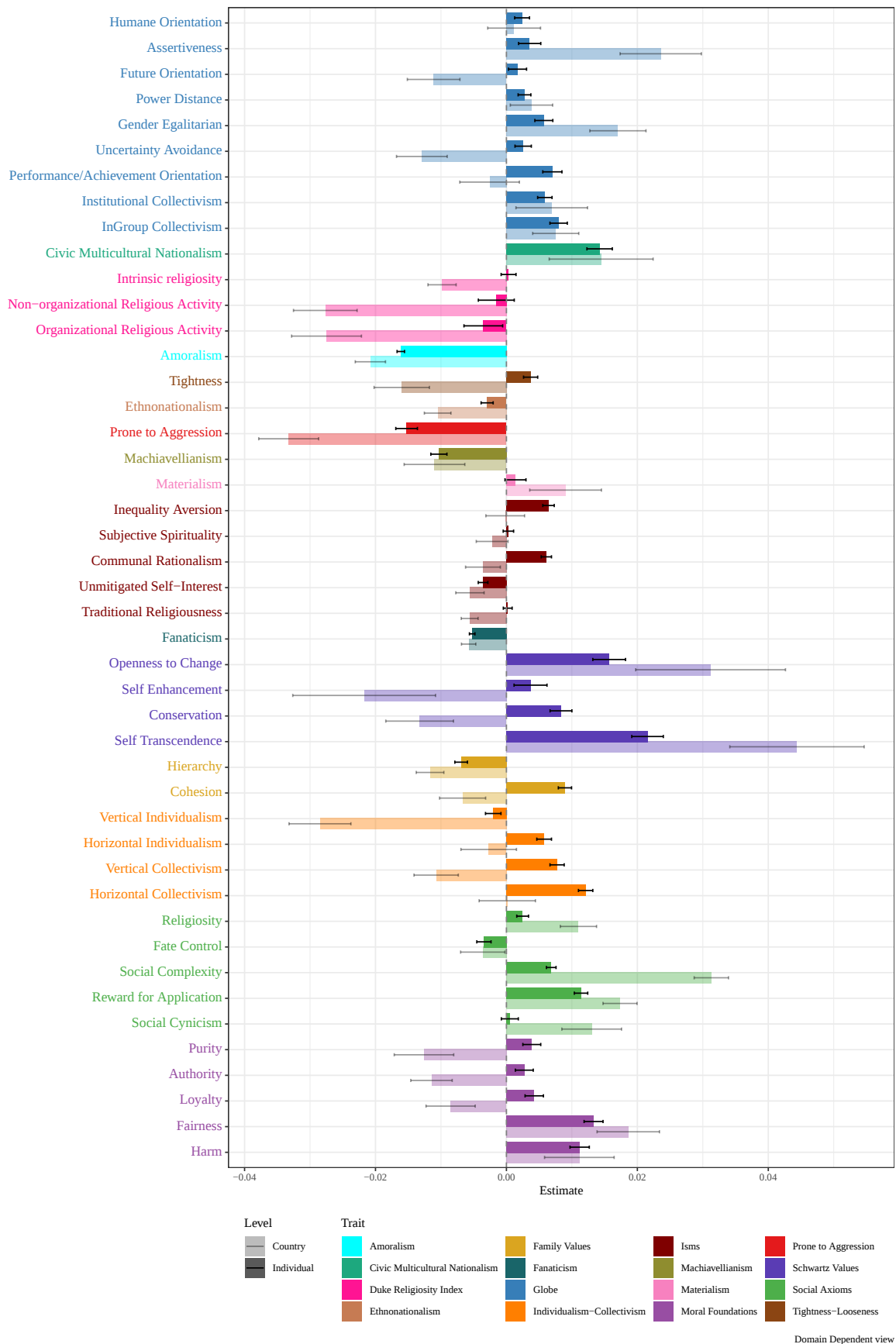


Figure 52: Domain Dependent view for Linear effects: Associations between Personality6 CNI and Mindset variables

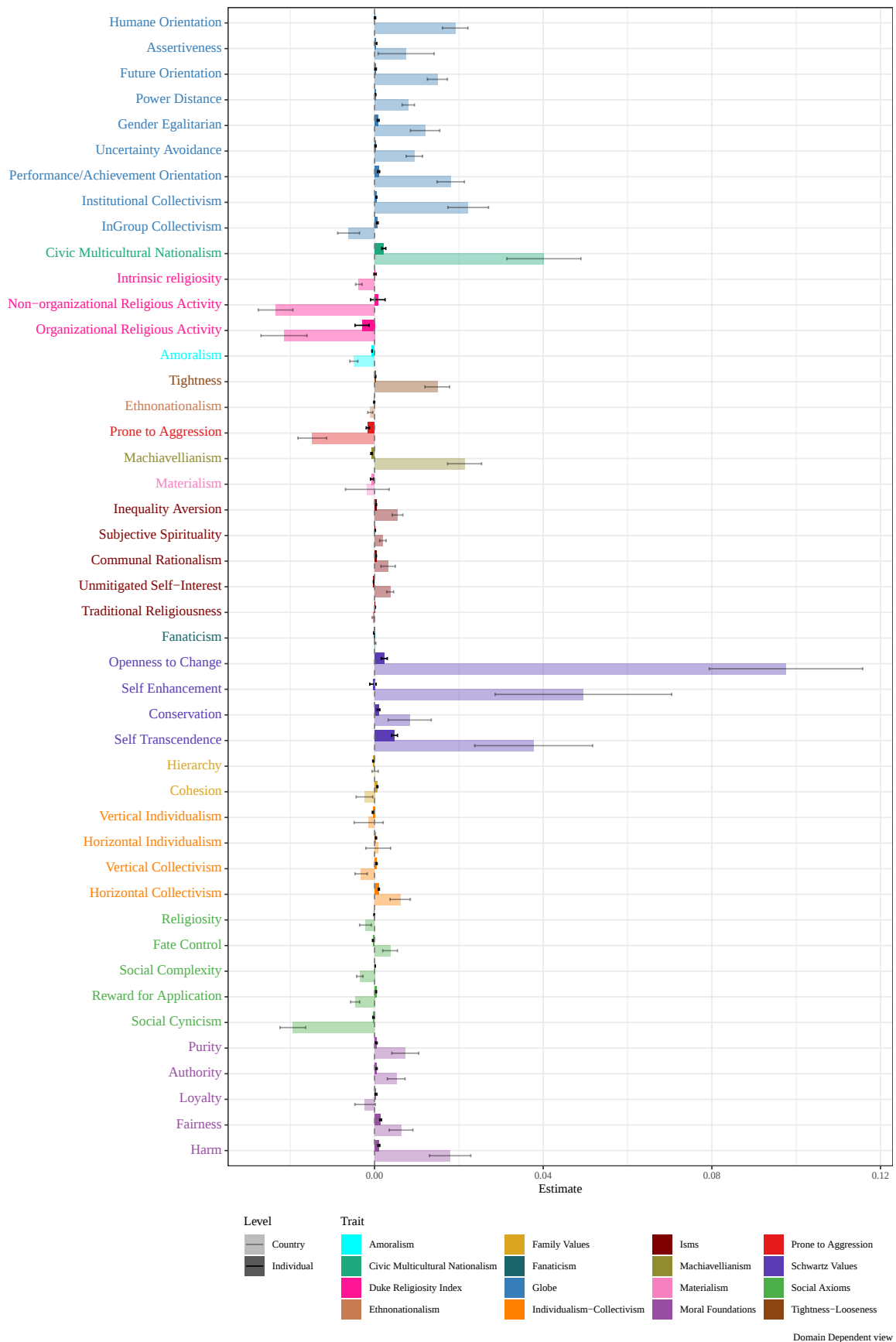


Figure 53: Domain Dependent view for Quadratic effects: Associations between Personality6 CNI and Mindset variables

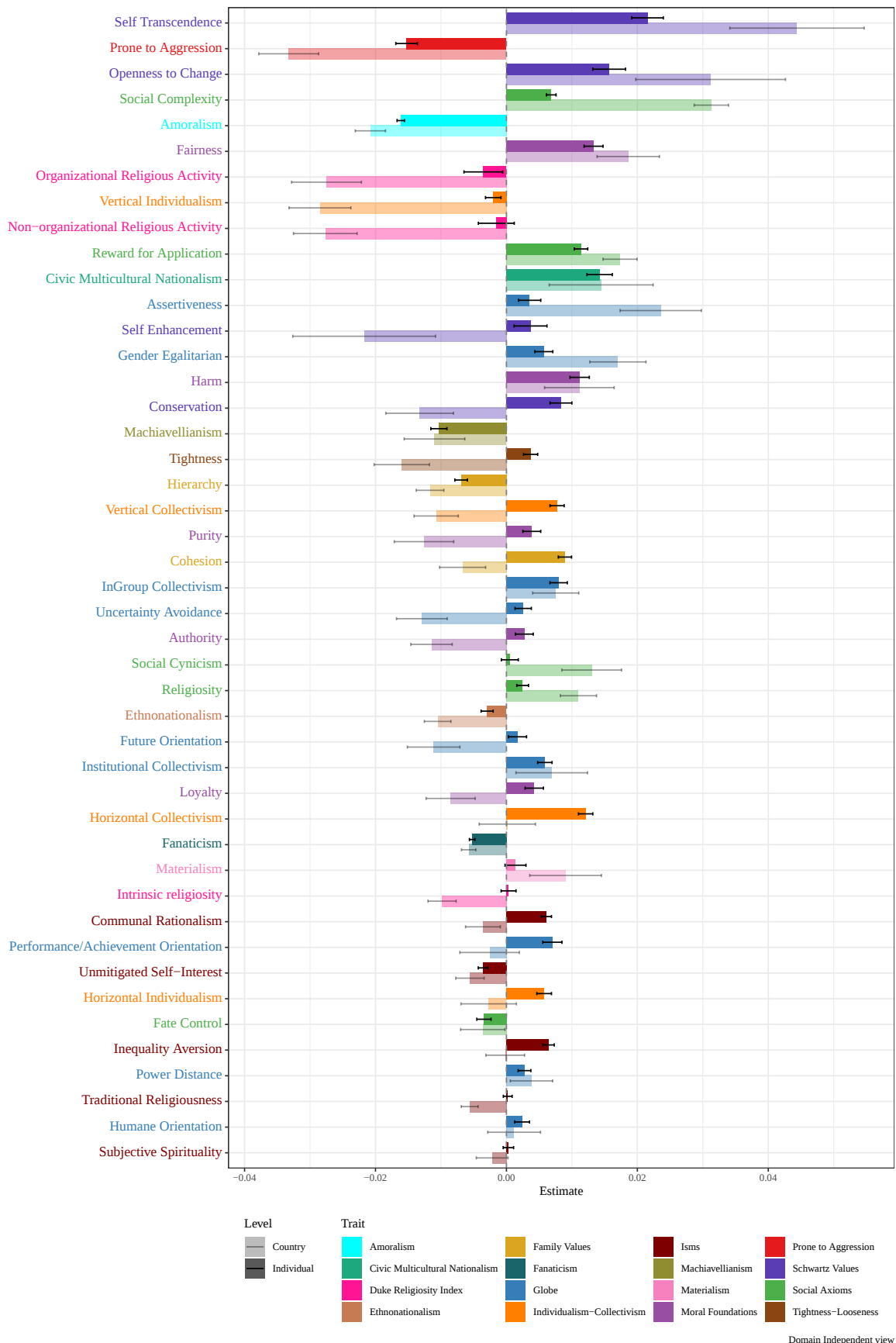


Figure 54: Domain Independent view for Linear effects: Associations between Personality6 CNI and Mindset variables

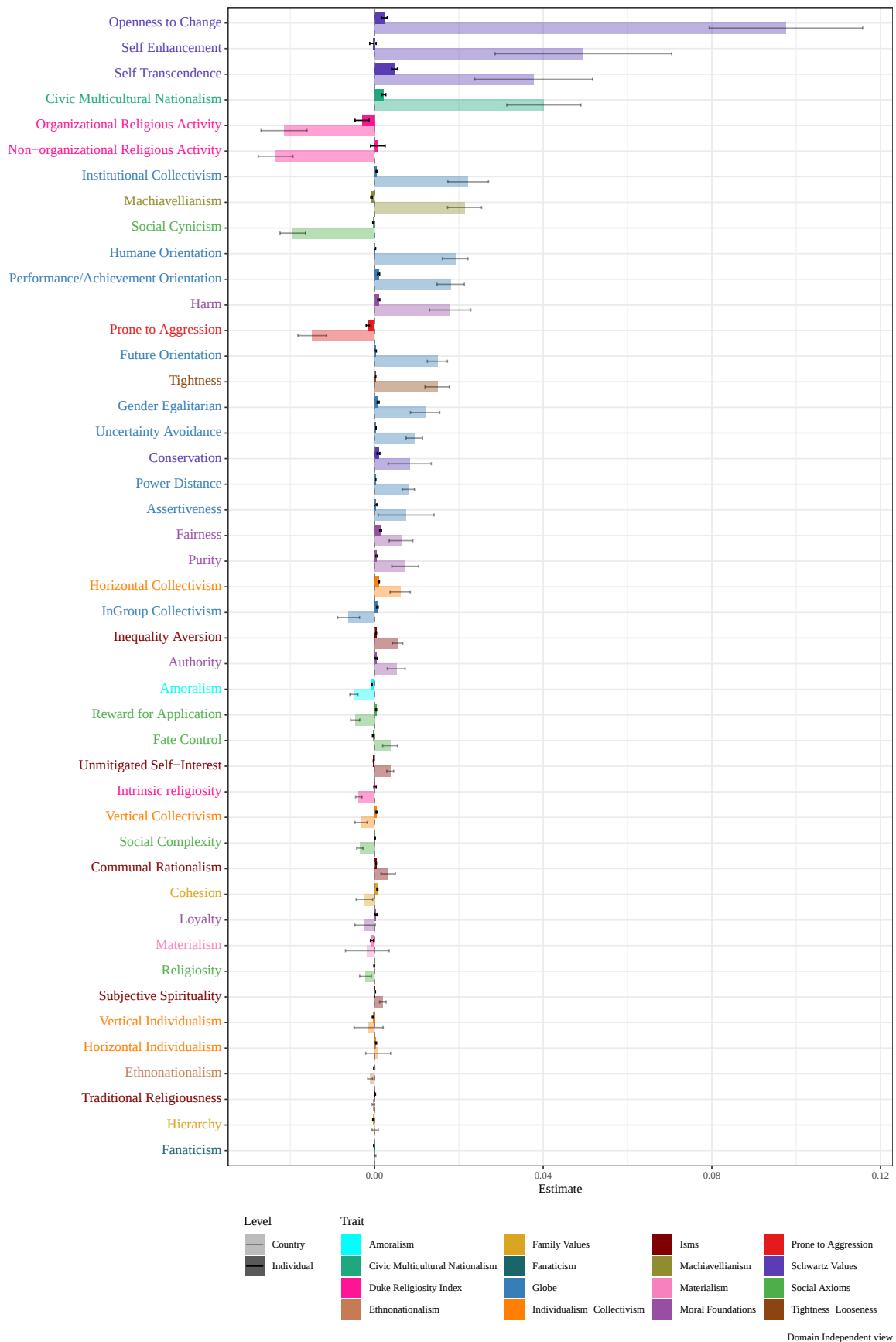


Figure 55: Domain Independent view for Quadratic effects: Associations between Personality6 CNI and Mindset variables

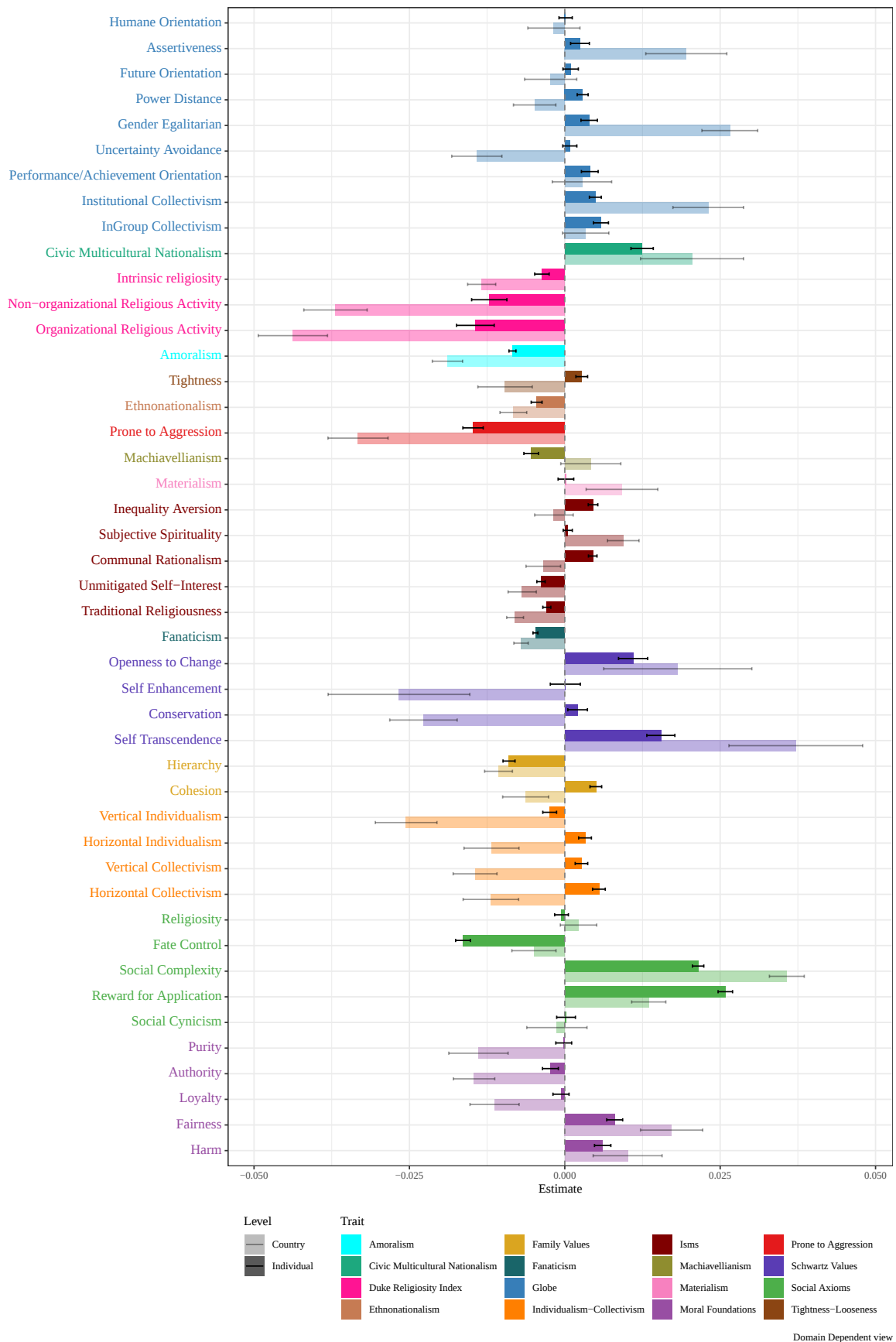


Figure 56: Domain Dependent view for Linear effects: Associations between Social Axioms-Mindset CNI and Mindset variables

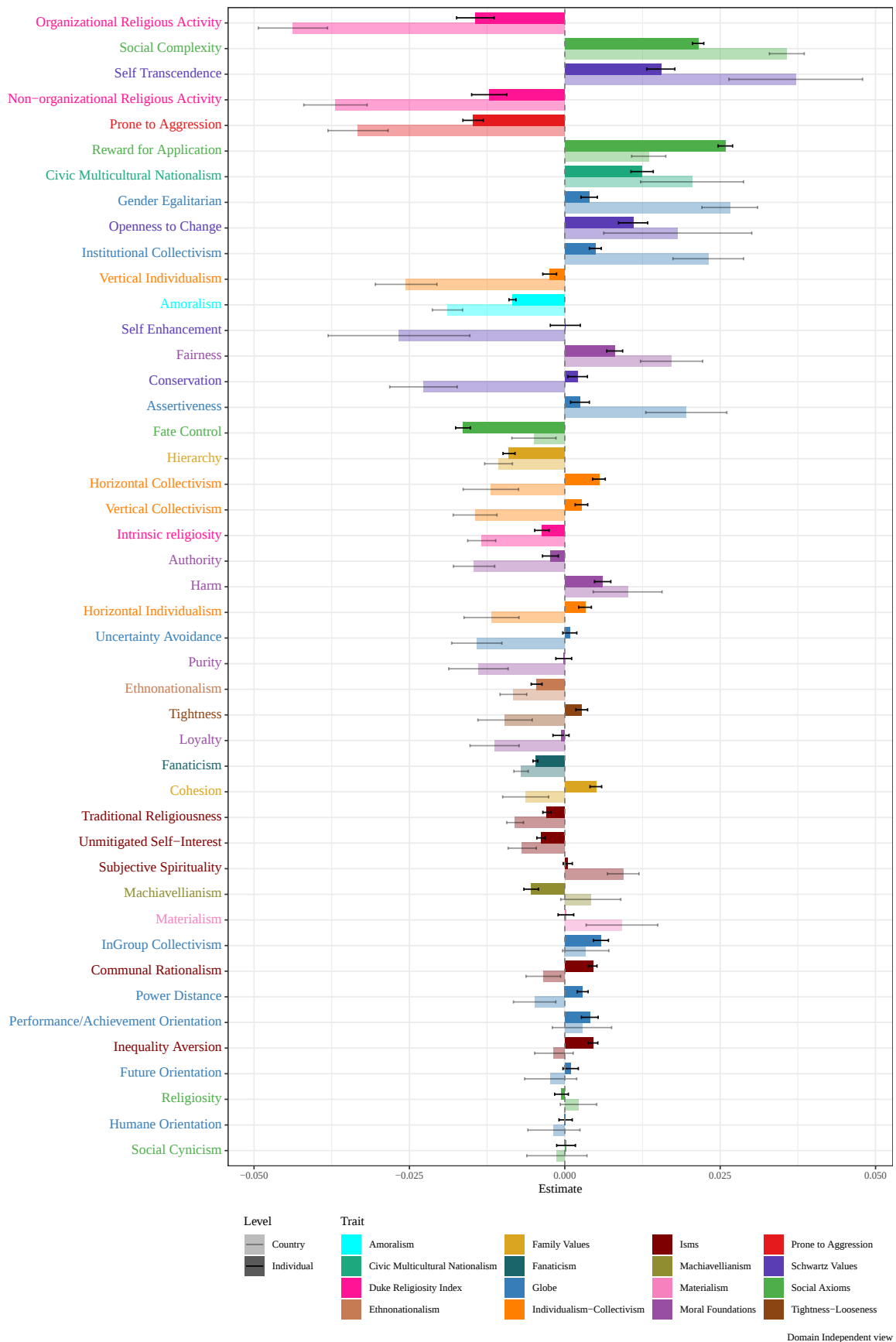


Figure 58: Domain Independent view for Linear effects: Associations between Social Axioms-Mindset CNI and Mindset variables

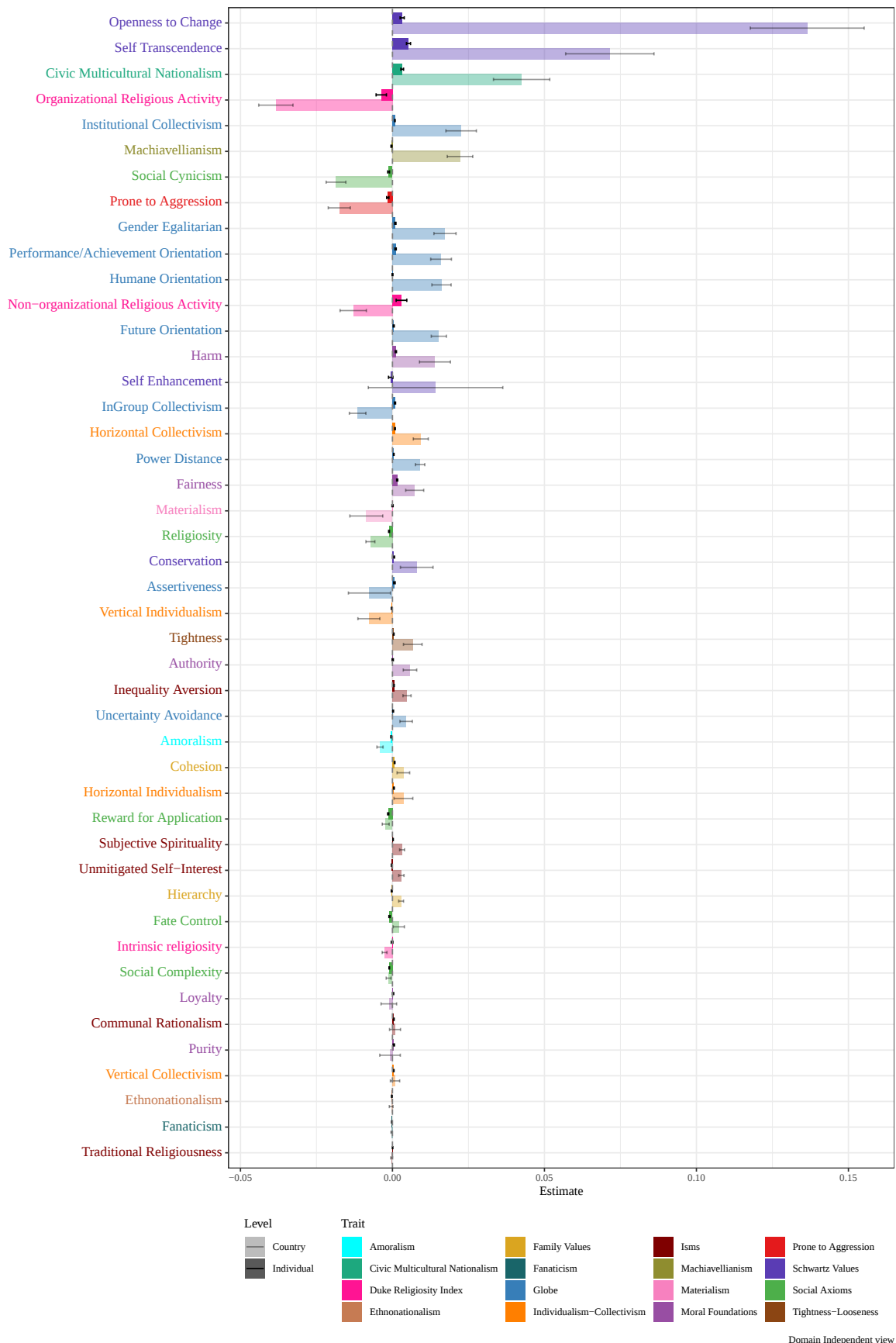


Figure 59: Domain Independent view for Quadratic effects: Associations between Social Axioms-Mindset CNI and Mindset variables

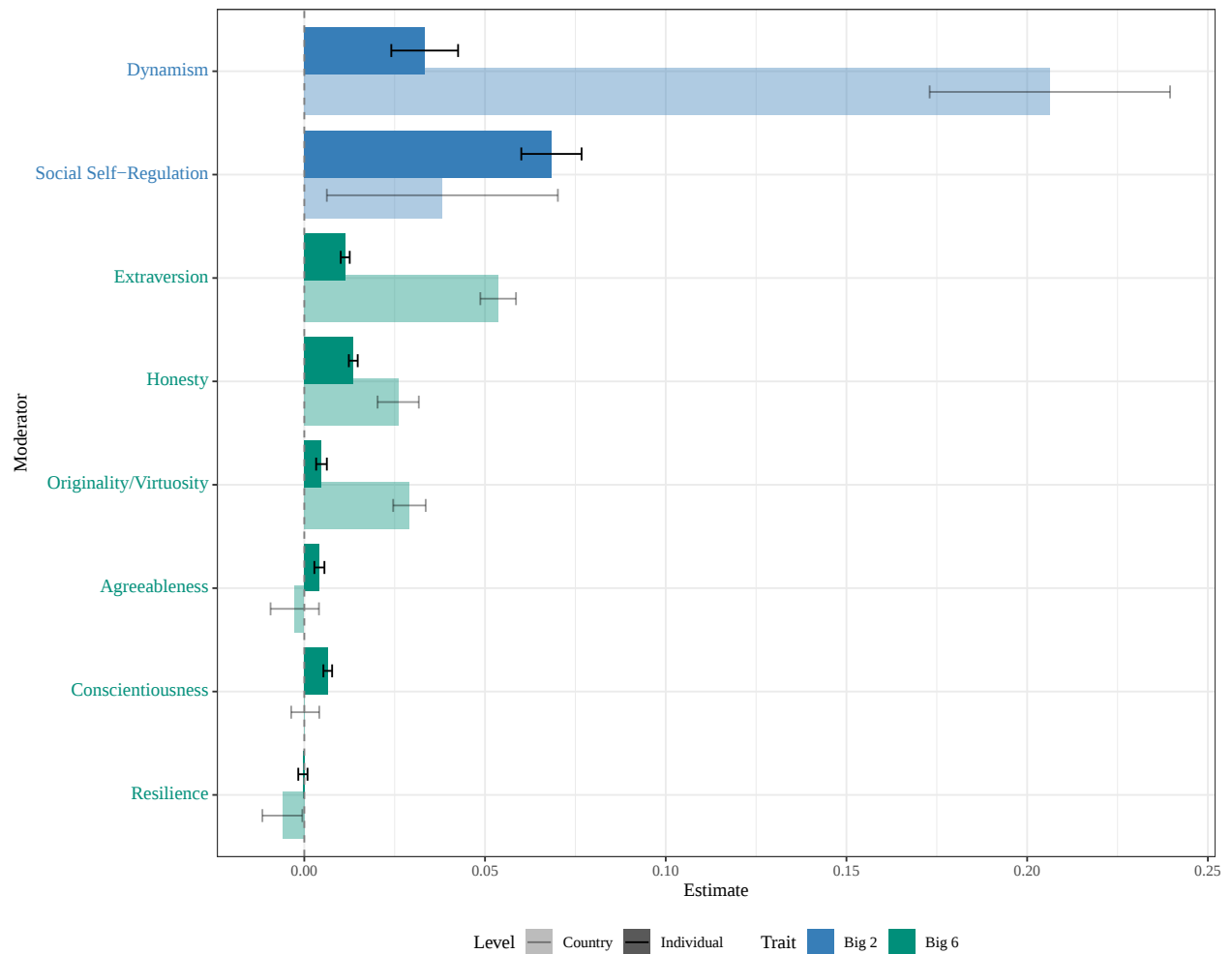


Figure 60: Linear effects: Associations between Fanaticism-Mindset CNI and Personality variables

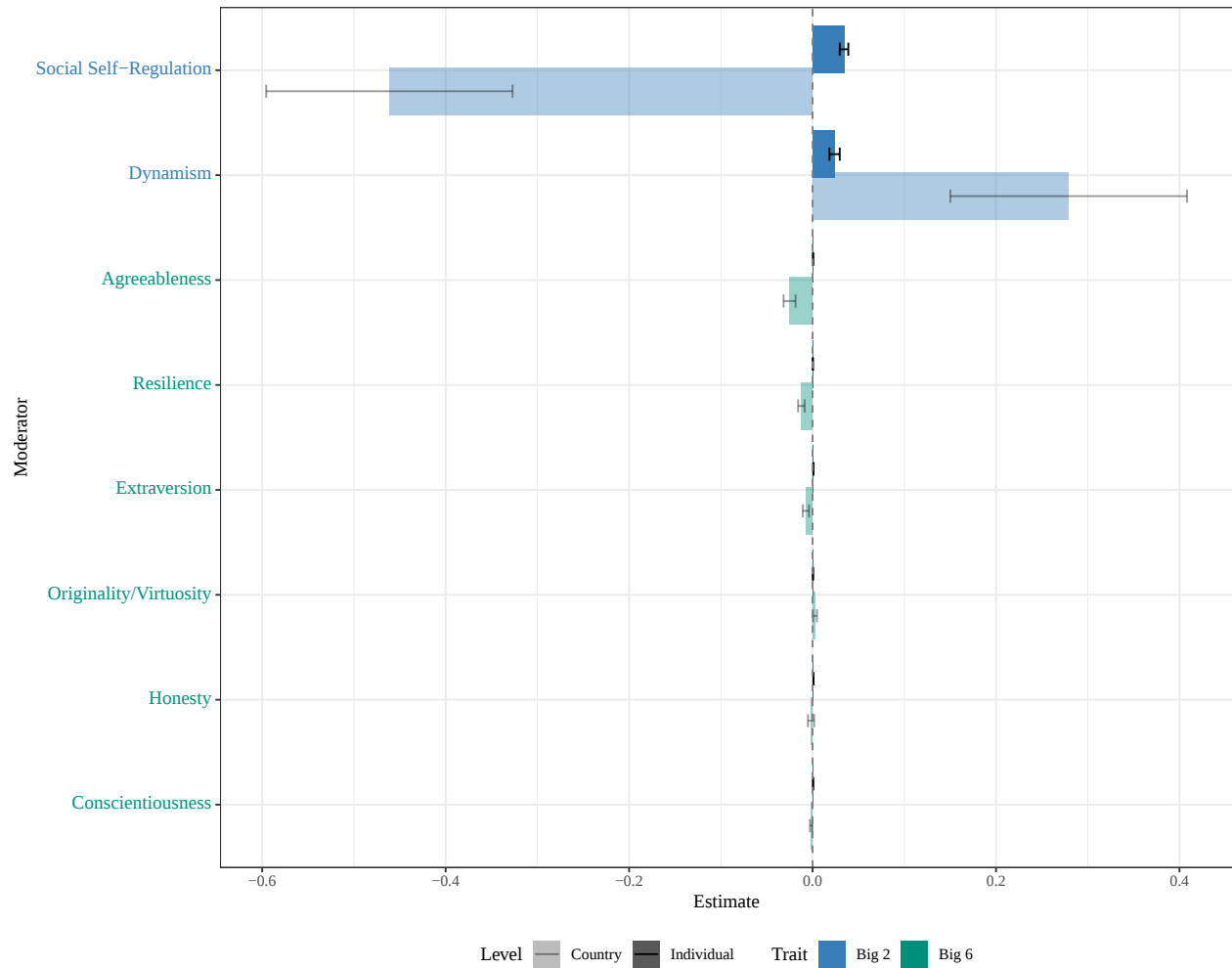


Figure 61: Quadratic effects: Associations between Fanaticism-Mindset CNI and Personality variables

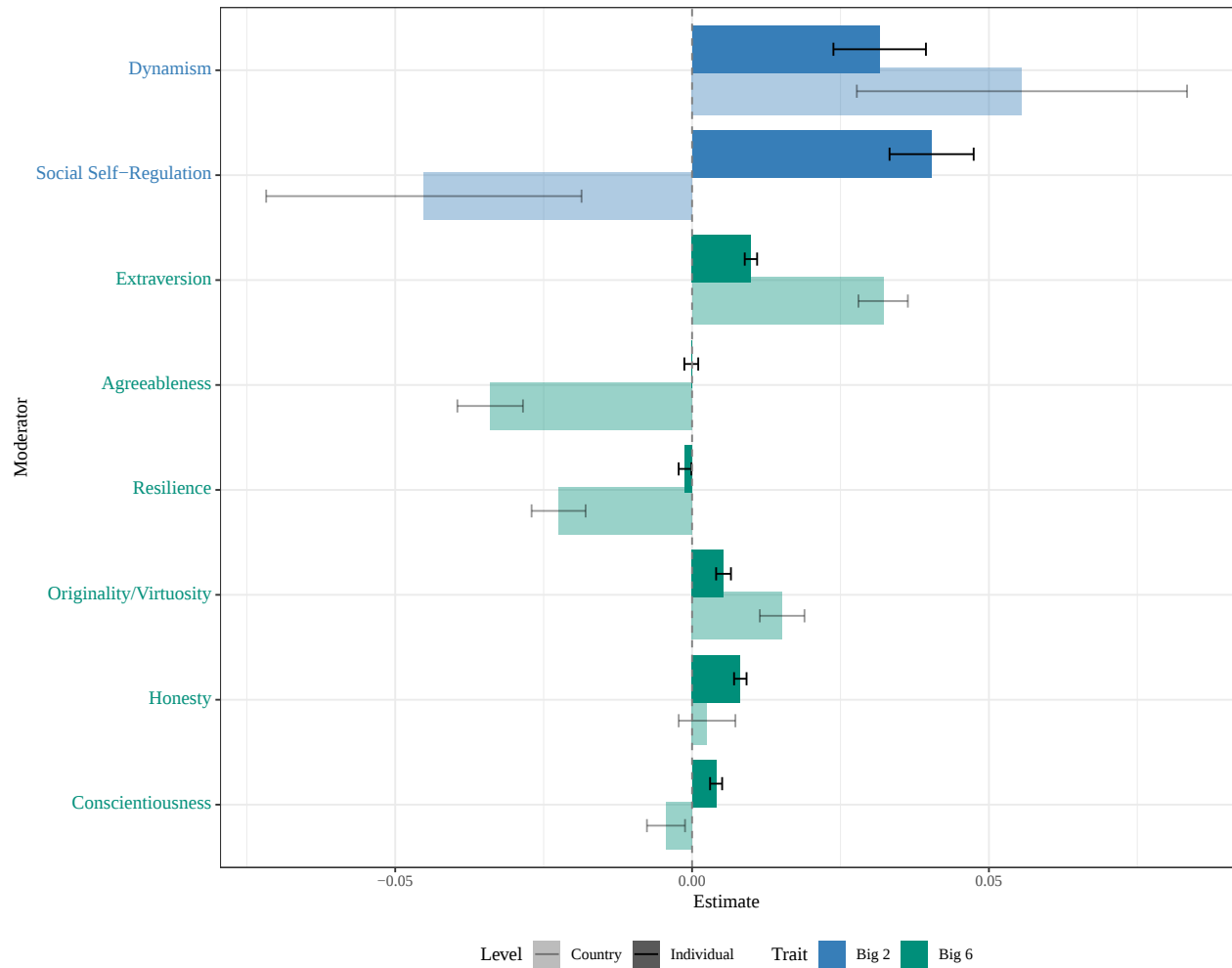


Figure 62: Linear effects: Associations between Globe-Mindset CNI and Personality variables

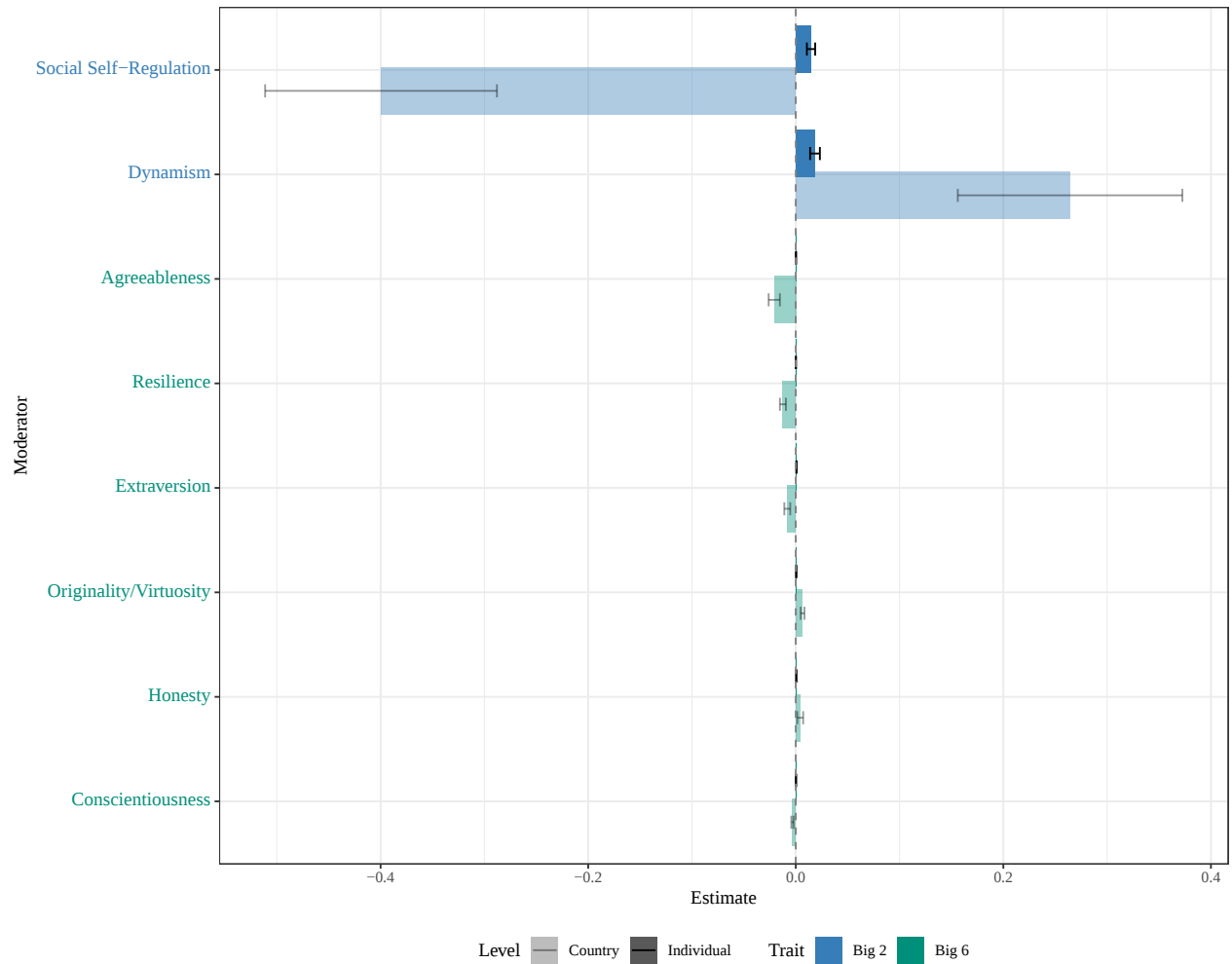


Figure 63: Quadratic effects: Associations between Globe-Mindset CNI and Personality variables

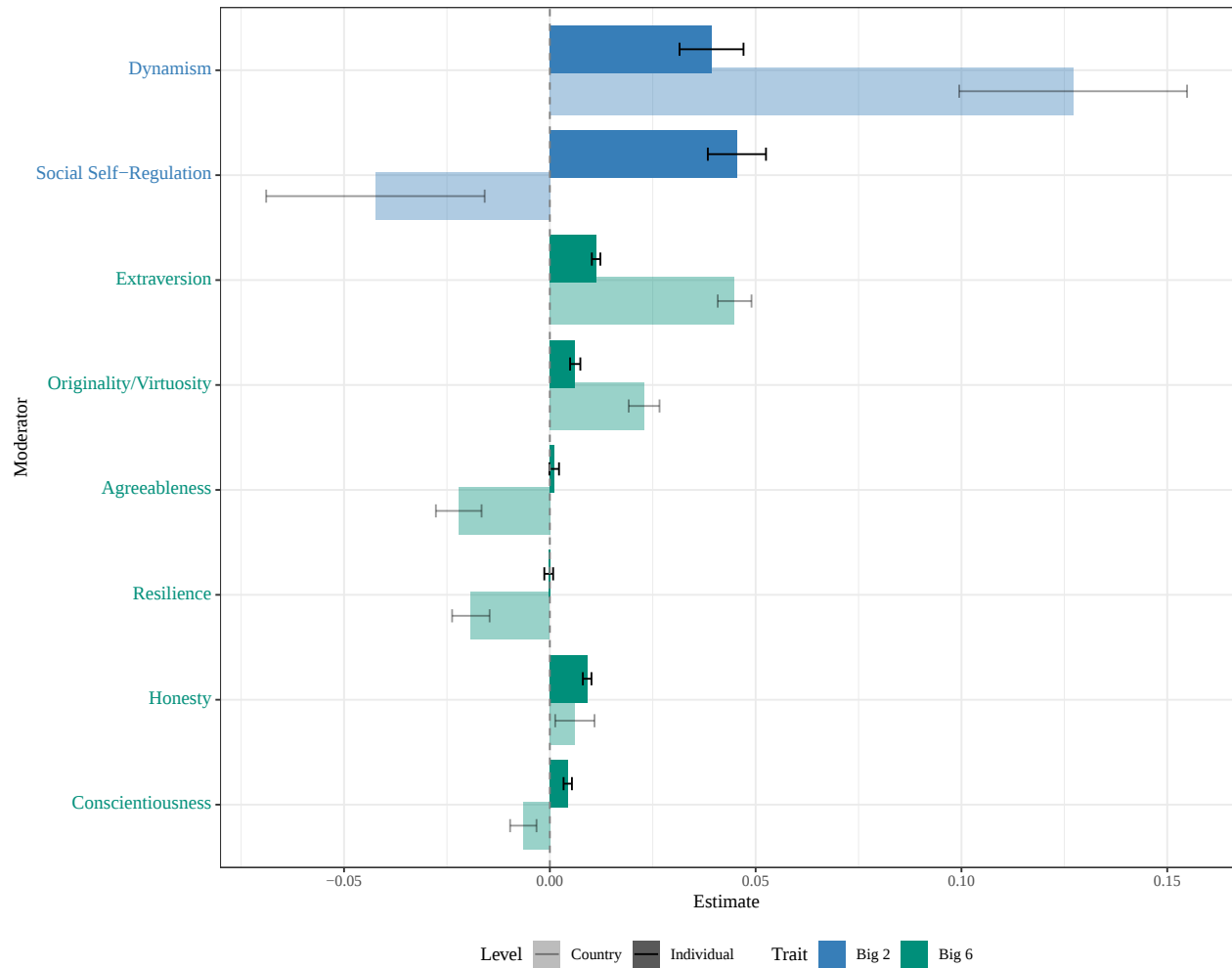


Figure 64: Linear effects: Associations between Globe (Extra items) and Personality variables

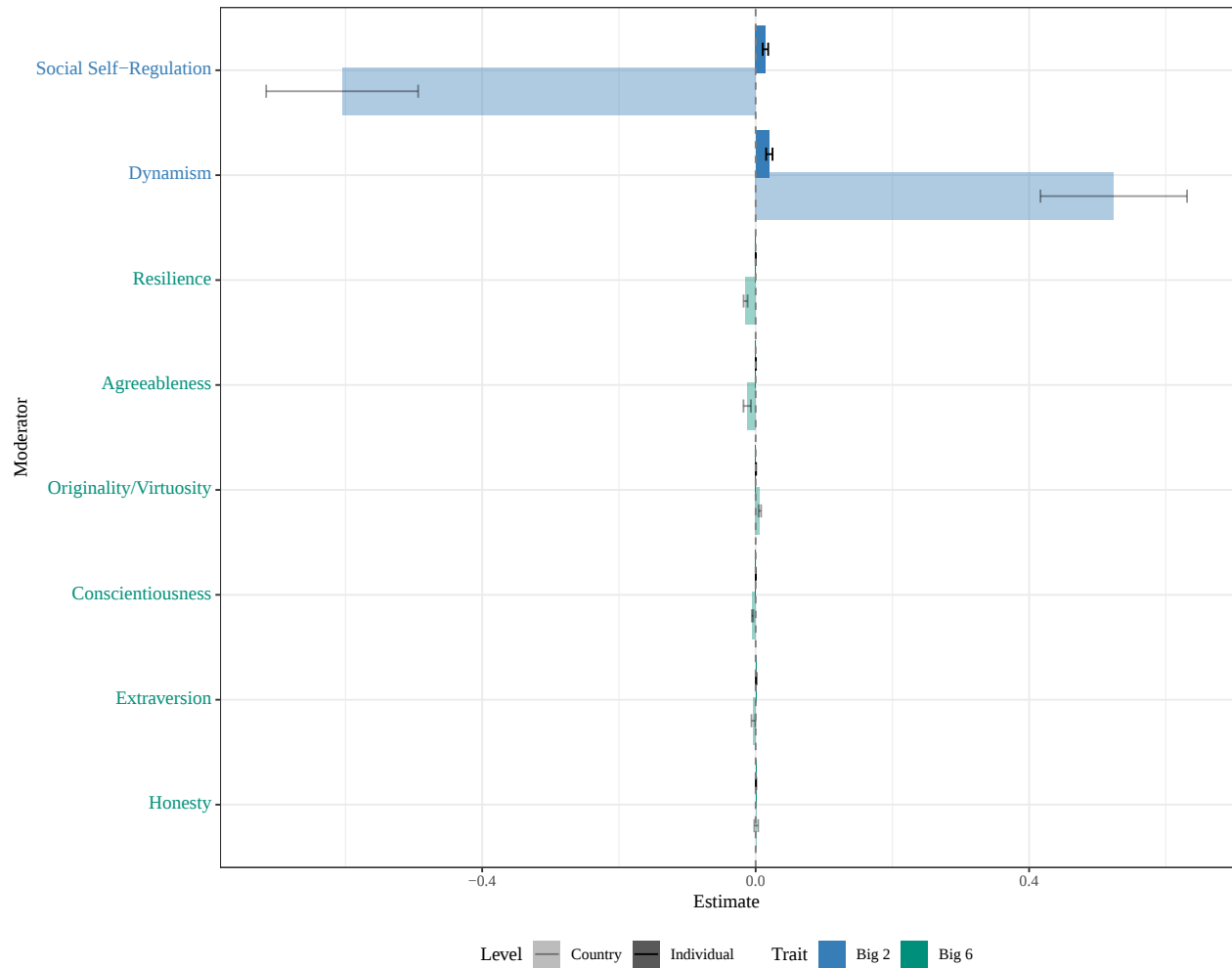


Figure 65: Quadratic effects: Associations between Globe (Extra items) and Personality variables

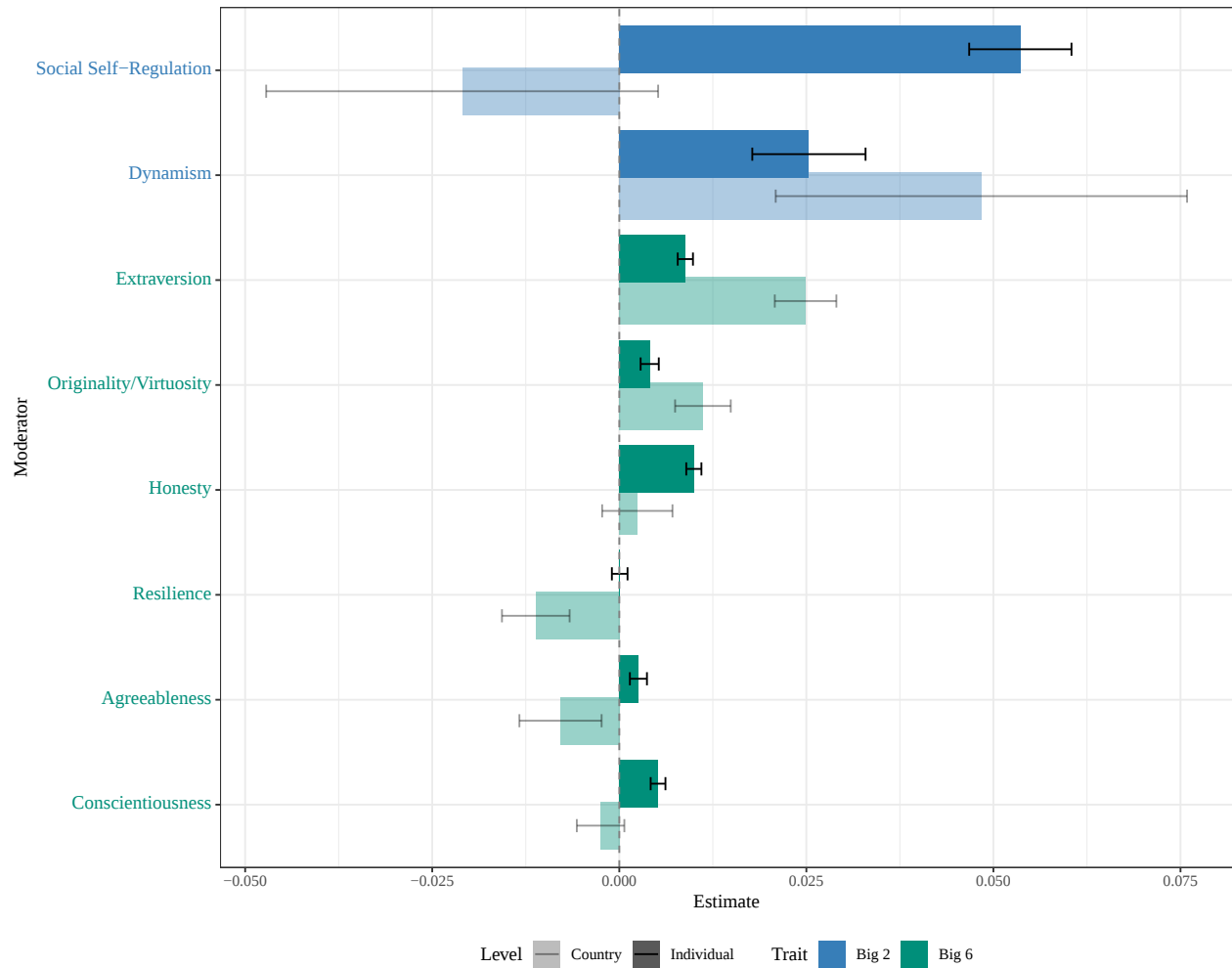


Figure 66: Linear effects: Associations between Isms-Mindset CNI and Personality variables

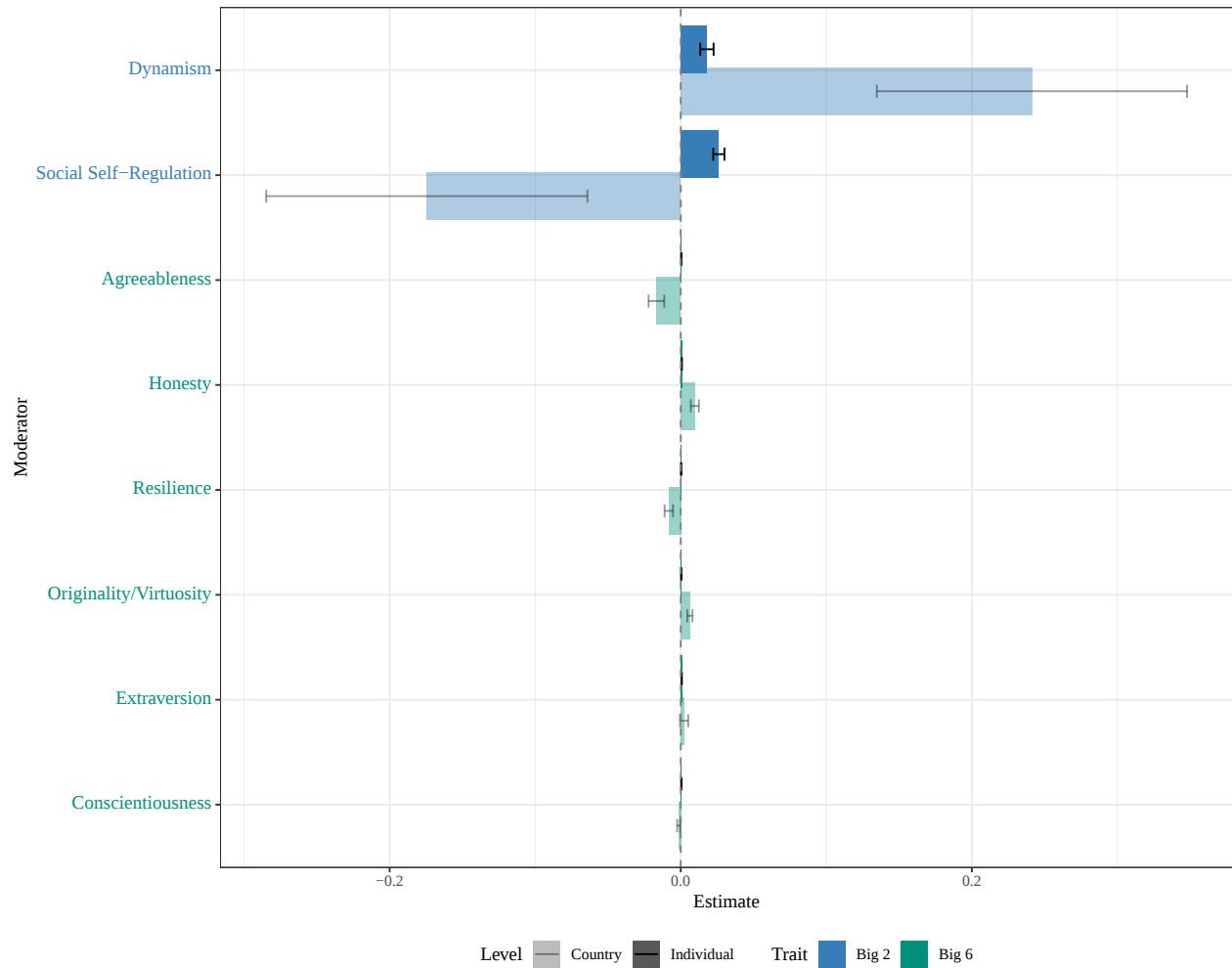


Figure 67: Quadratic effects: Associations between Isms-Mindset CNI and Personality variables

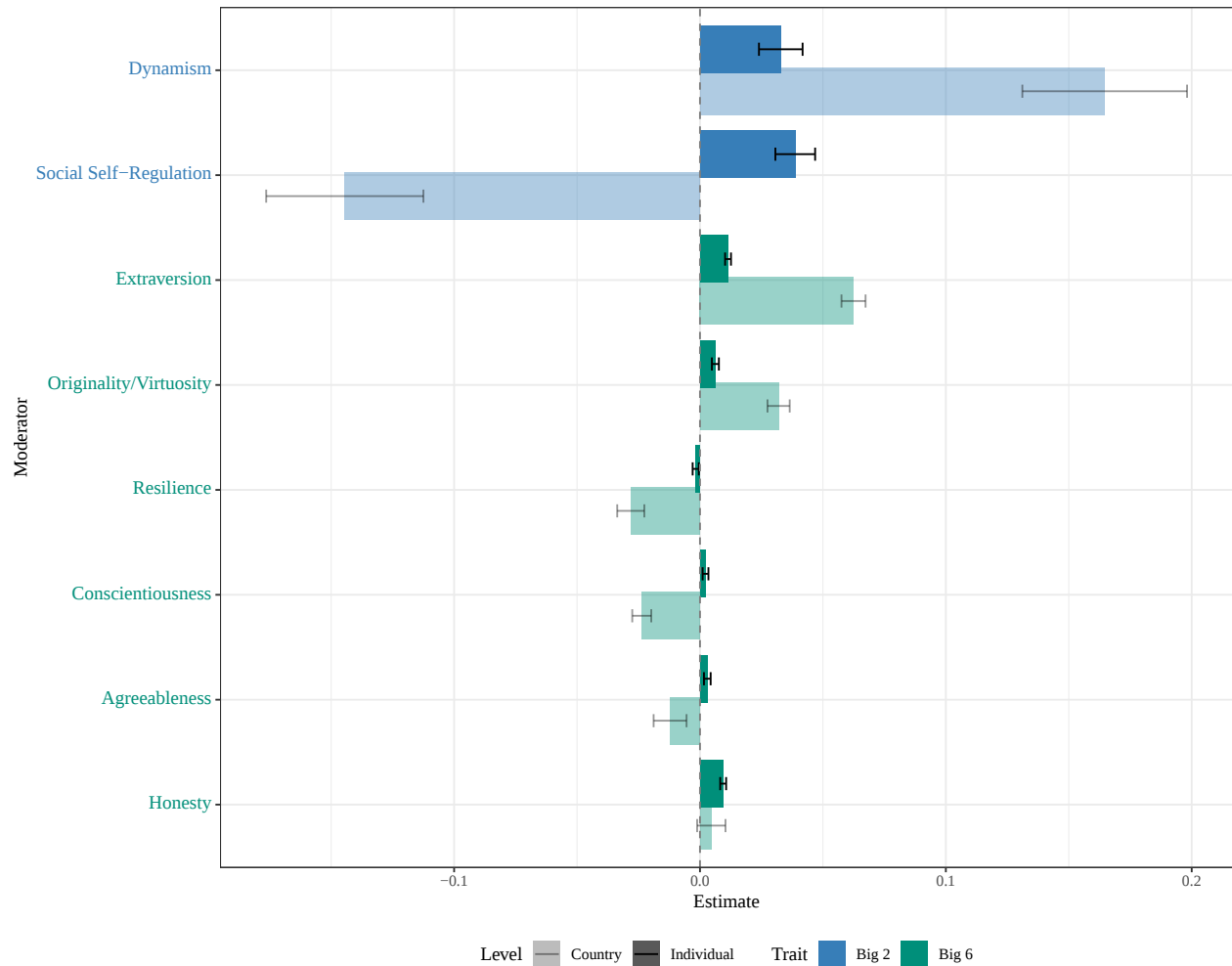


Figure 68: Linear effects: Associations between Moral Foundations-Mindset CNI and Personality variables

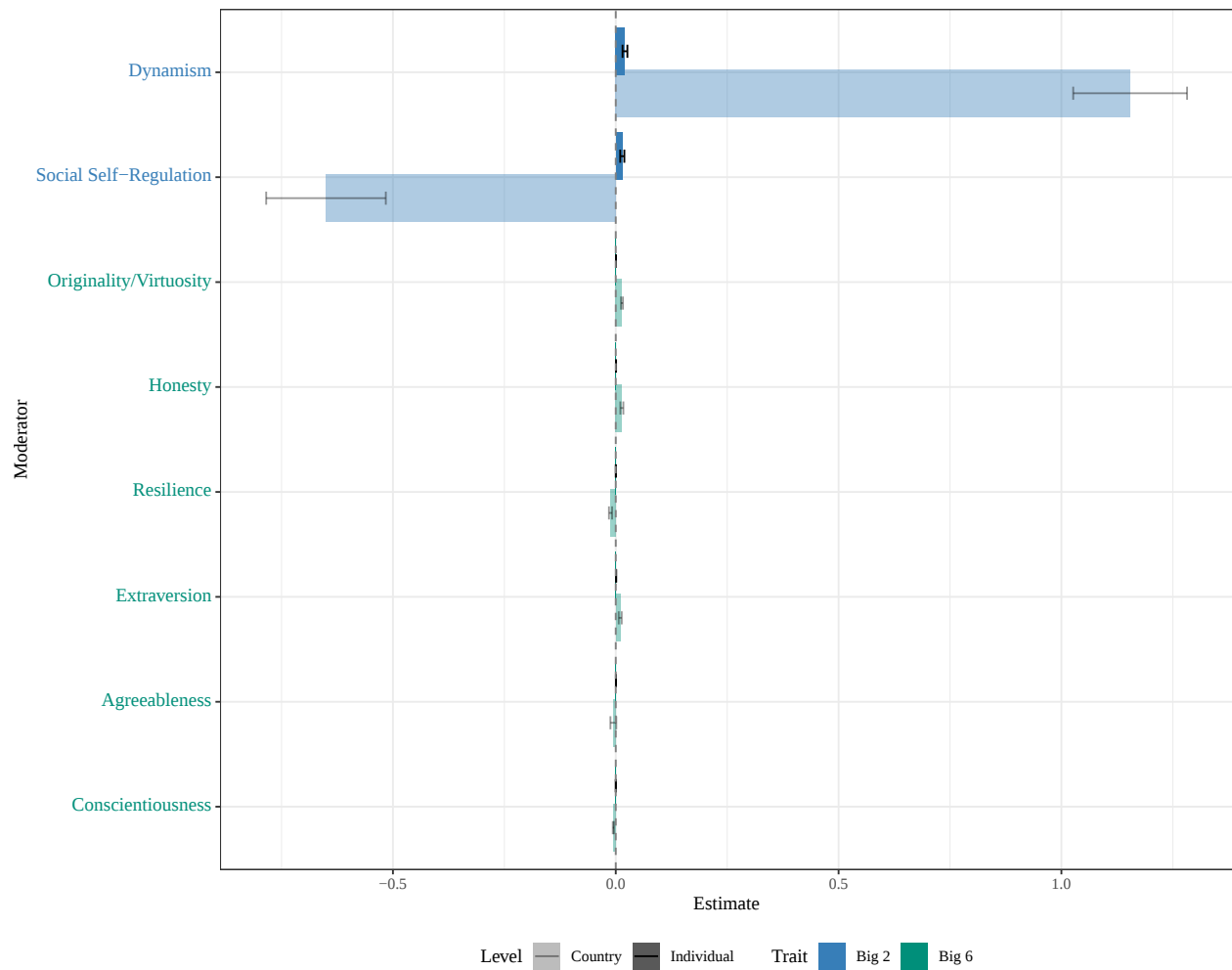


Figure 69: Quadratic effects: Associations between Moral Foundations-Mindset CNI and Personality variables

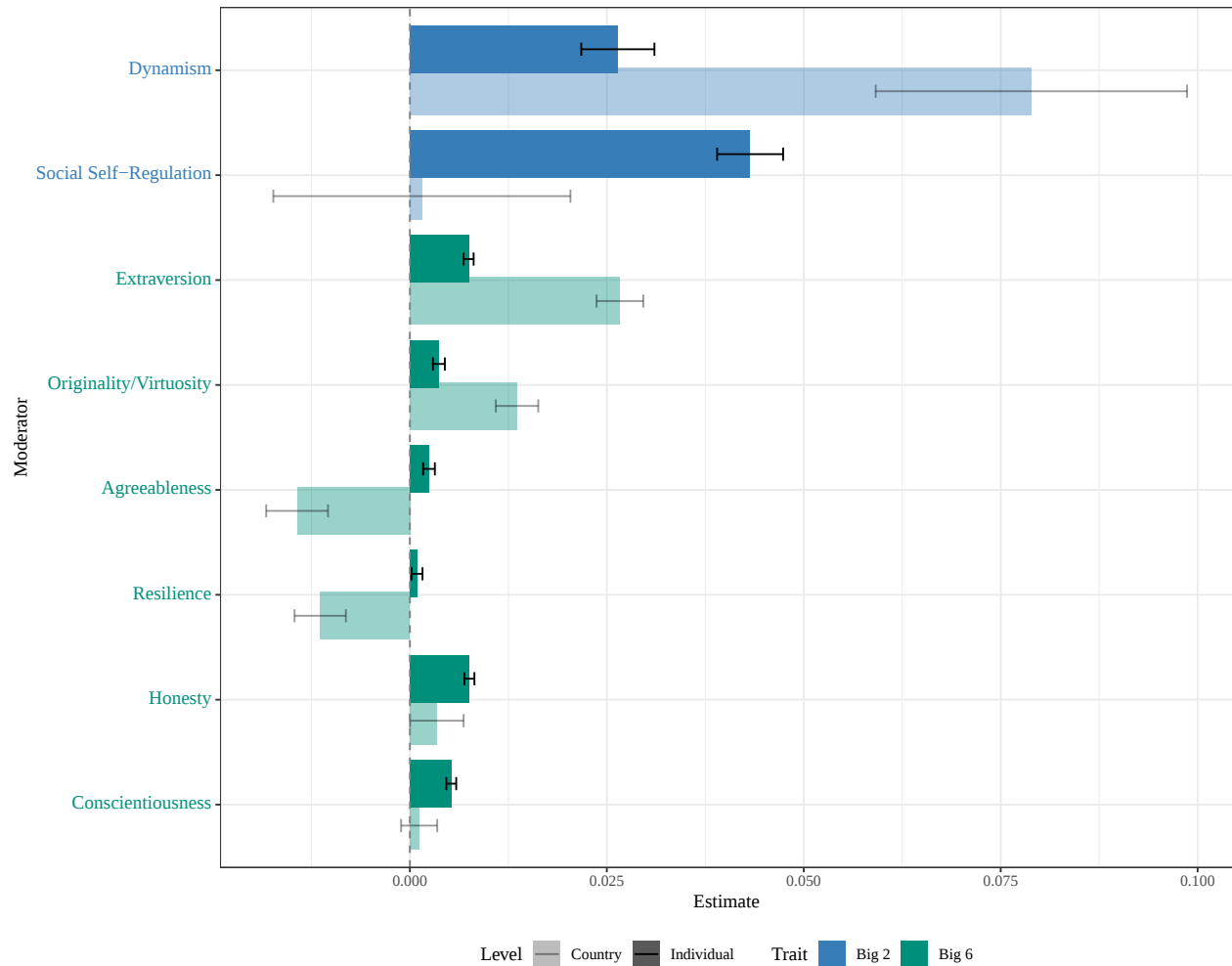


Figure 70: Linear effects: Associations between Mindset CNI and Personality variables

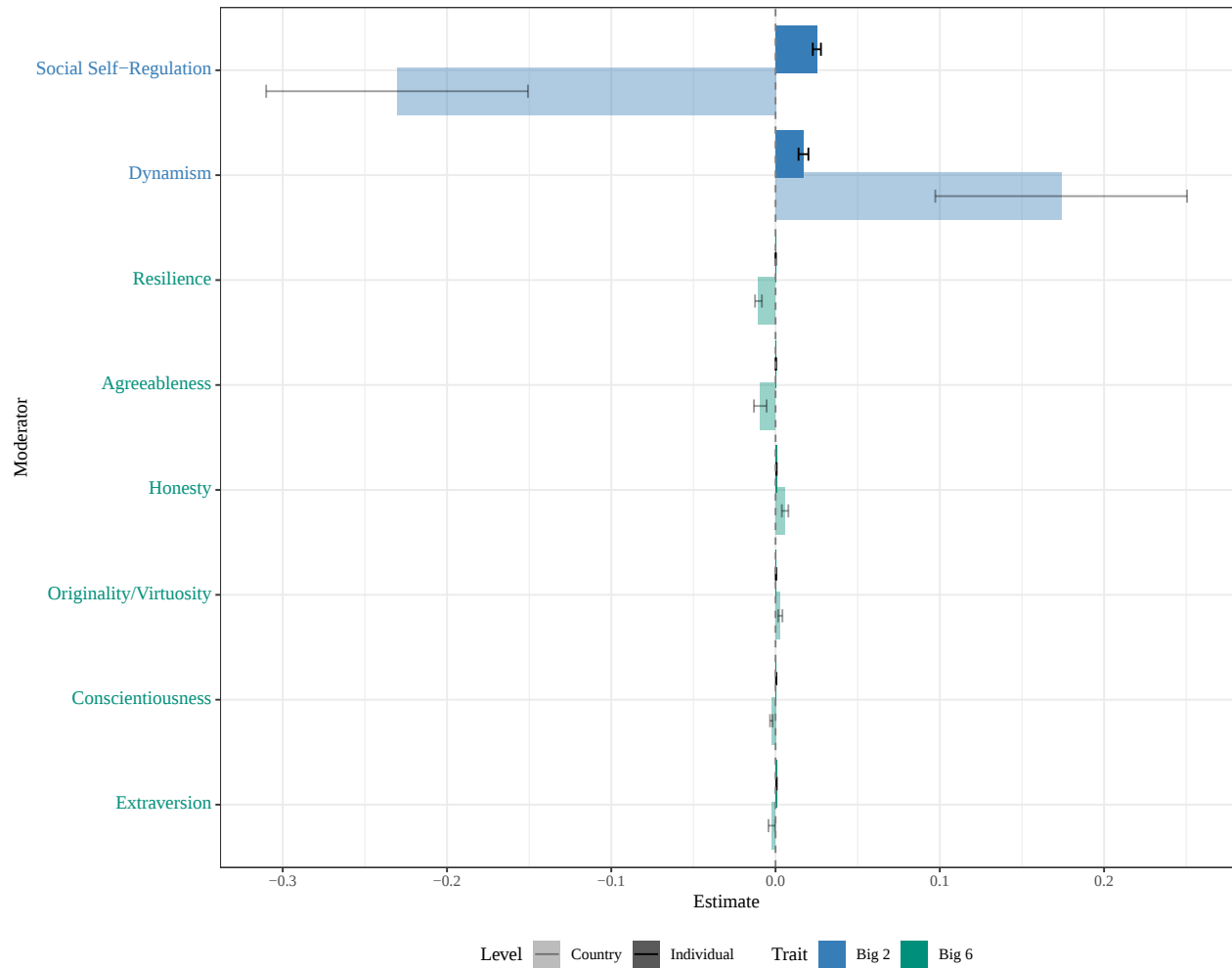


Figure 71: Quadratic effects: Associations between Mindset CNI and Personality variables

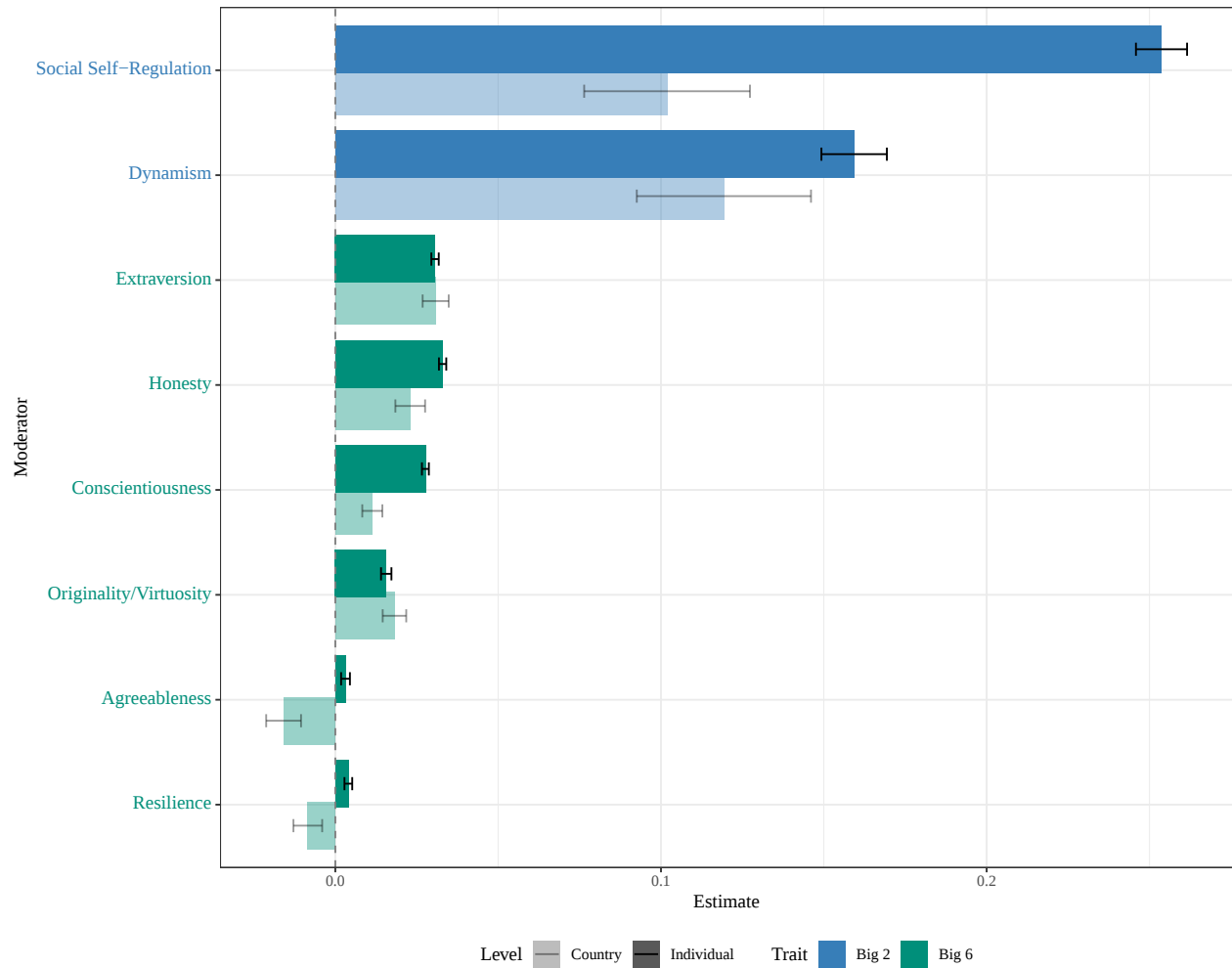


Figure 72: Linear effects: Associations between Personality6 CNI and Personality variables

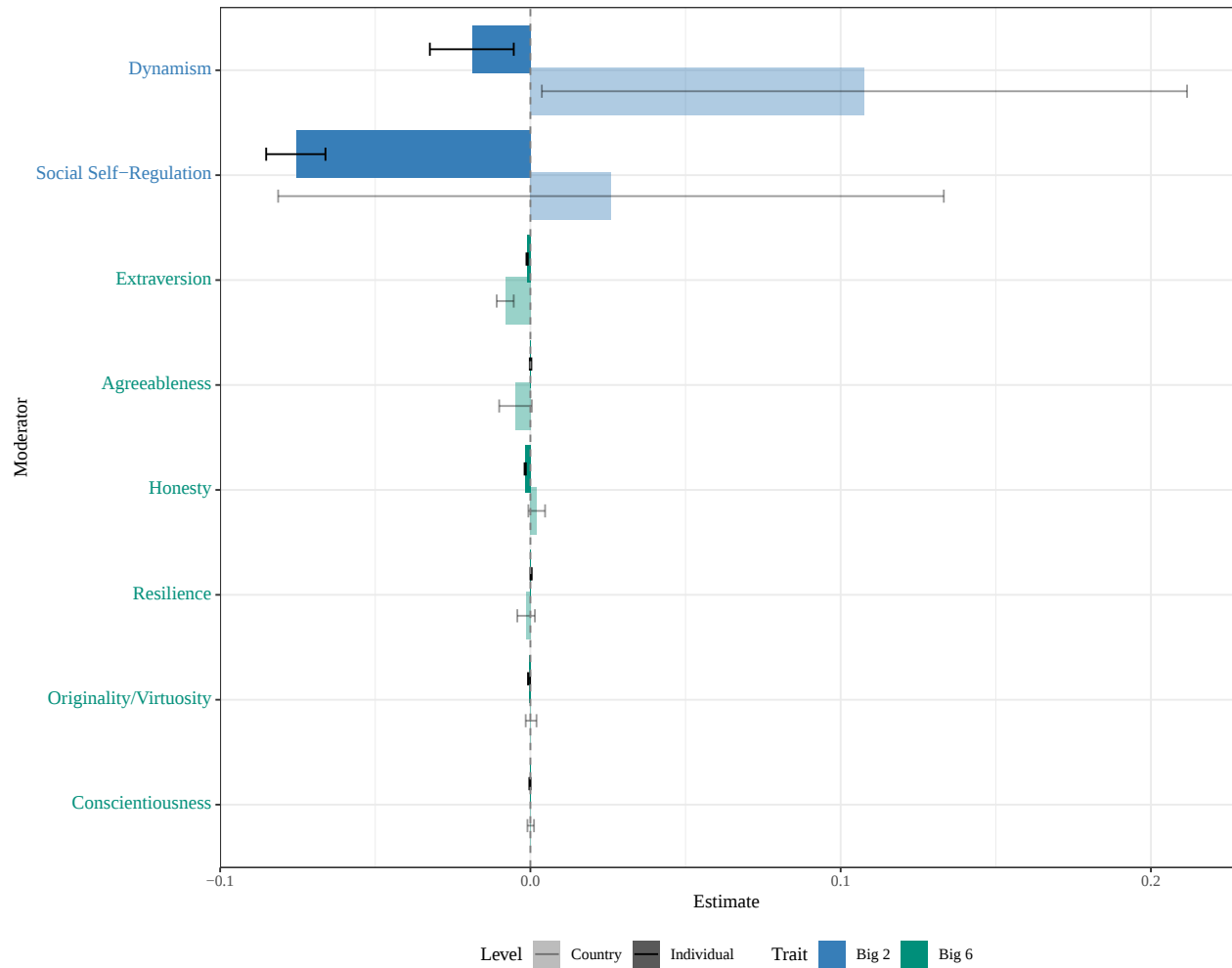


Figure 73: Quadratic effects: Associations between Personality6 CNI and Personality variables

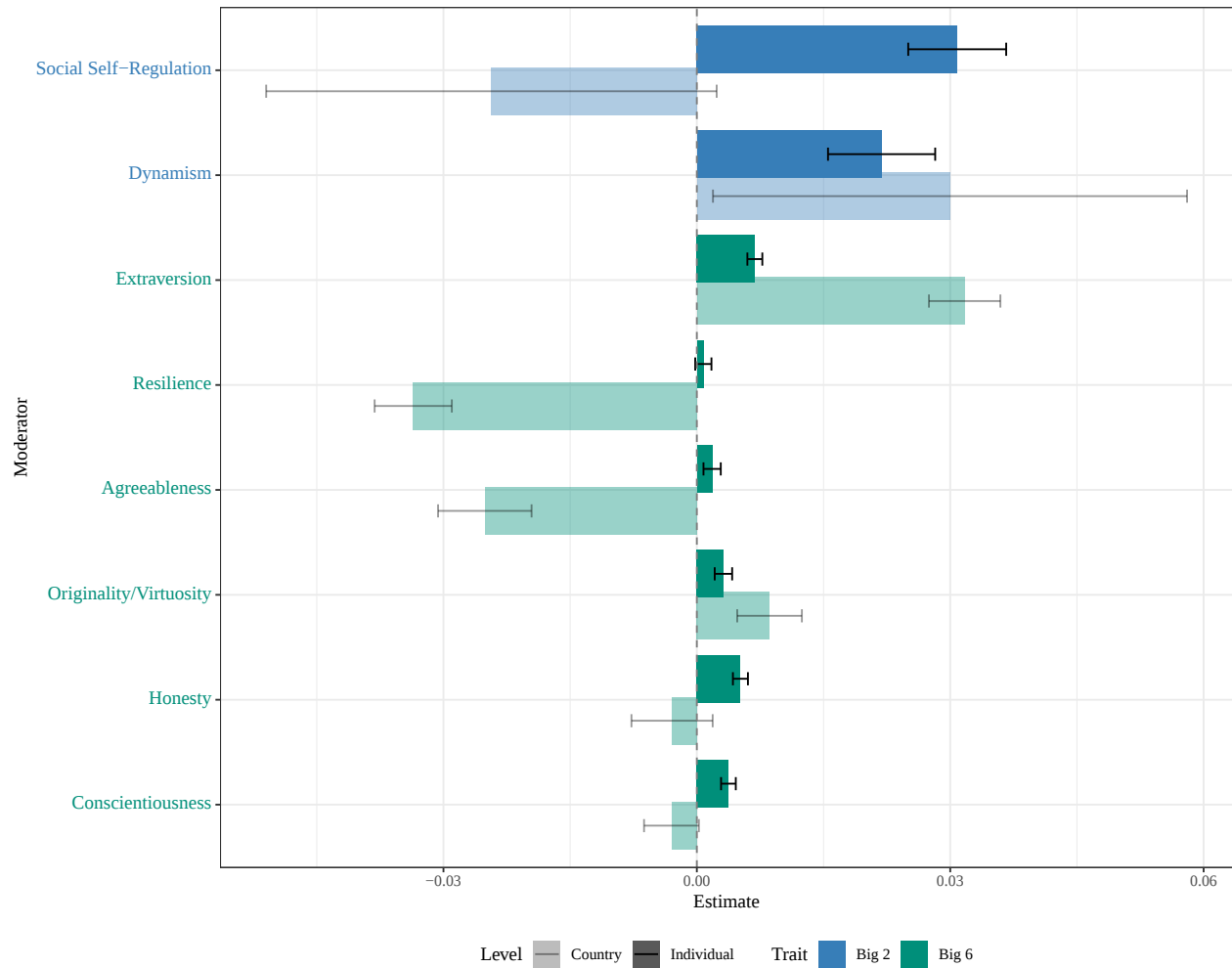


Figure 74: Linear effects: Associations between Social Axioms-Mindset CNI and Personality variables

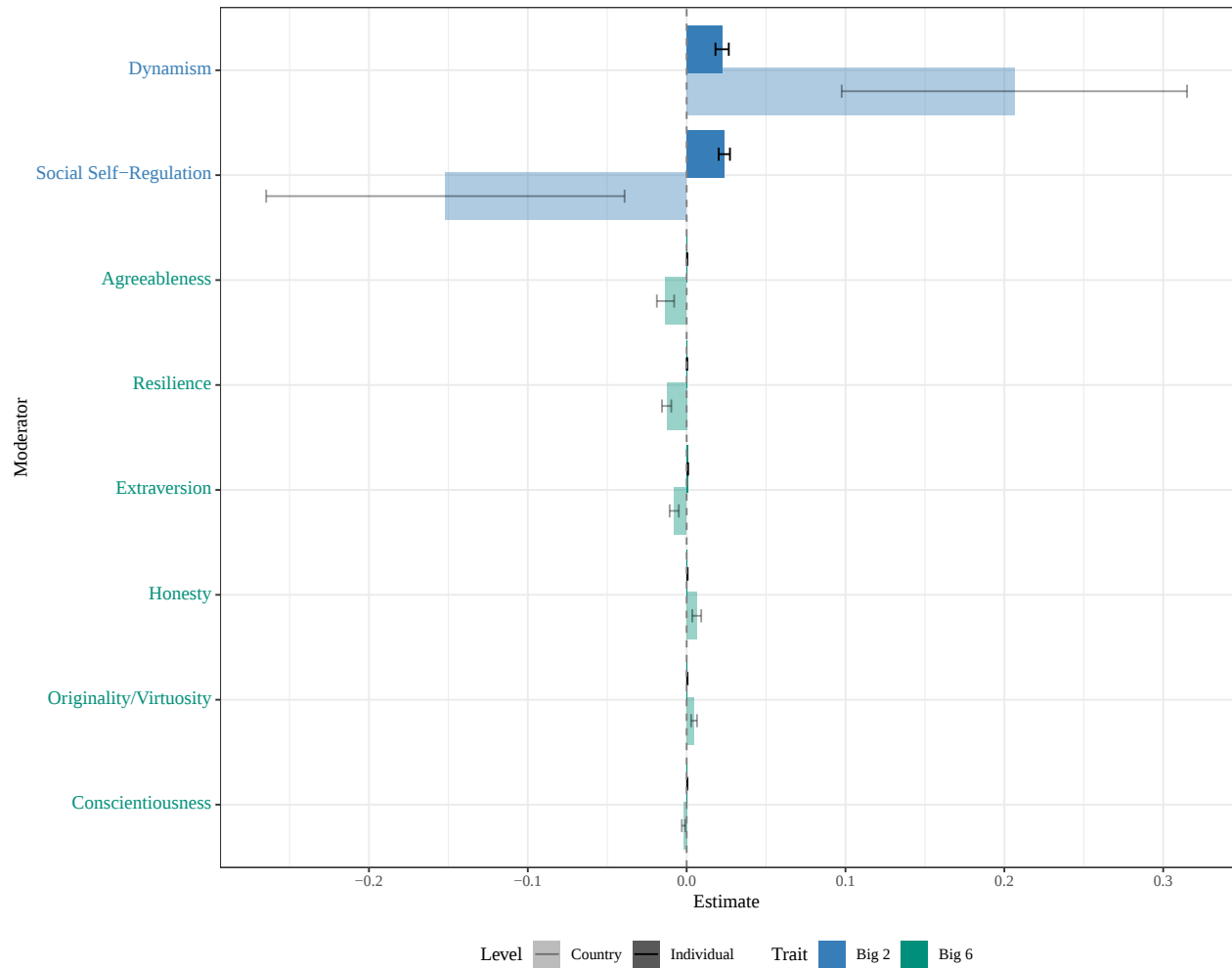


Figure 75: Quadratic effects: Associations between Social Axioms-Mindset CNI and Personality variables

```

color_mapping <- strongest5_contMods_CNI %>%
  select(modtr, label_color) %>%
  distinct() %>%
  deframe()

final_table <-
  map_dfr(cni_types, ~strongest5_contMods(.x, all_cni.contMod_effects)) %>%
  specify_var_names() %>%
  with_groups(modtr, ~ mutate(.x, avg_abs_estimate = mean(abs(estimate)))) %>%
  mutate(modtr = fct_reorder(modtr, avg_abs_estimate, .desc = FALSE)) %>%
  specify_var_names() %>%
  separate(modtr_type, c("CNI_type", "Moderator_type"), sep = "\\.") %>%
  mutate(
    CNI_type = str_remove(CNI_type, "CNI"),
    CNI_type = str_to_sentence(CNI_type),
    CNI_type = str_replace_all(CNI_type, c(
      "cni" = " CNI",
      "ism" = "Isms",
      "Fantc" = "Fanaticism",
      "Globe" = "GLOBE",
      "Pty6" = "Personality 6",
      "Pty7" = "Personality 7")),
    Moderator_type = if_else(Moderator_type == "pty7", "Personality", "Mindset"),
    p.value = map_chr(p.value, papaja::printp),
    across(where(is.numeric), ~ round(., 3)),
    ci = paste0("[", conf.low, ", ", conf.high, "]"),
    term = ifelse(str_detect(term, "2"), "(b2)", "(b)"),
    estimate = as.character(estimate),
    modtr = paste0(modtr, " (", Moderator_type, ")"),
    modtr = ifelse(level == "Country",
      paste0(modtr, footnote_marker_symbol(1, "latex")),
      paste0(modtr, footnote_marker_symbol(2, "latex"))),
    CNI_type = str_replace(CNI_type, "CNI", "") %>%
  select(CNI_type, modtr, term, estimate, ci, p.value)

final_table %>%
  kable(booktabs = T,
    escape = F,
    format = "latex",
    col.names = c("CNI type", "Moderator", "Term", "Est", "95\\% CI", "$\\textit{p}$"),
    longtable = T,
    align = c('l', 'r', 'c', 'c', 'c', 'c')) %>%
  kable_styling(latex_options = c("repeat_header")) %>%
  collapse_rows(columns = 1, latex_hline = "linespace") %>%
  footnote(symbol = c("Country", "Individual"),
    symbol_title = "",
    general = "(b) = Linear model, (b2) = Quadratic",
    general_title = "Note:",
    title_format = "italic",
    fixed_small_size = TRUE,
    footnote_as_chunk = FALSE,
    threeparttable = TRUE)

```

Table 48: Five Strongest Estimates across CNI types

CNI type	Moderator	Term	Est	95% CI	p
Mindset	Social Self-Regulation (Mindset)*	(b2)	-0.23	[-0.31, -0.151]	< .001
	Dynamism (Mindset)*	(b2)	0.174	[0.097, 0.251]	< .001
	Openness to Change (Mindset)*	(b2)	0.089	[0.075, 0.102]	< .001
	Dynamism (Mindset)*	(b)	0.079	[0.059, 0.099]	< .001
	Social Self-Regulation (Mindset) [†]	(b)	0.043	[0.039, 0.047]	< .001
Isms	Dynamism (Mindset)*	(b2)	0.241	[0.135, 0.348]	< .001
	Social Self-Regulation (Mindset)*	(b2)	-0.174	[-0.285, -0.064]	.002
	Openness to Change (Mindset)*	(b2)	0.111	[0.092, 0.129]	< .001
	Self Transcendence (Mindset)*	(b2)	0.064	[0.05, 0.078]	< .001
	Social Self-Regulation (Mindset) [†]	(b)	0.054	[0.047, 0.06]	< .001
GLOBE	Social Self-Regulation (Mindset)*	(b2)	-0.4	[-0.511, -0.288]	< .001
	Dynamism (Mindset)*	(b2)	0.264	[0.156, 0.373]	< .001
	Openness to Change (Mindset)*	(b2)	0.111	[0.092, 0.13]	< .001
	Self Transcendence (Mindset)*	(b2)	0.061	[0.047, 0.076]	< .001
	Dynamism (Mindset)*	(b)	0.056	[0.028, 0.083]	< .001
GLOBEex	Social Self-Regulation (Mindset)*	(b2)	-0.605	[-0.716, -0.494]	< .001
	Dynamism (Mindset)*	(b2)	0.524	[0.417, 0.631]	< .001
	Dynamism (Mindset)*	(b)	0.127	[0.099, 0.155]	< .001
	Openness to Change (Mindset)*	(b2)	0.105	[0.086, 0.124]	< .001
	Organizational Religious Activity (Mindset)*	(b)	-0.063	[-0.069, -0.058]	< .001
Fanaticism	Social Self-Regulation (Mindset)*	(b2)	-0.461	[-0.596, -0.327]	< .001
	Dynamism (Mindset)*	(b2)	0.279	[0.15, 0.408]	< .001
	Dynamism (Mindset)*	(b)	0.206	[0.173, 0.24]	< .001
	Openness to Change (Mindset)*	(b2)	0.077	[0.054, 0.099]	< .001
	Social Self-Regulation (Mindset) [†]	(b)	0.068	[0.06, 0.077]	< .001
Mf	Dynamism (Mindset)*	(b2)	1.154	[1.026, 1.282]	< .001
	Social Self-Regulation (Mindset)*	(b2)	-0.65	[-0.784, -0.516]	< .001
	Dynamism (Mindset)*	(b)	0.165	[0.131, 0.198]	< .001
	Openness to Change (Mindset)*	(b2)	0.149	[0.126, 0.171]	< .001
	Social Self-Regulation (Mindset)*	(b)	-0.144	[-0.176, -0.112]	< .001
Socax	Dynamism (Mindset)*	(b2)	0.206	[0.098, 0.315]	< .001
	Social Self-Regulation (Mindset)*	(b2)	-0.152	[-0.265, -0.039]	.008
	Openness to Change (Mindset)*	(b2)	0.136	[0.118, 0.155]	< .001
	Self Transcendence (Mindset)*	(b2)	0.072	[0.057, 0.086]	< .001
	Organizational Religious Activity (Mindset)*	(b)	-0.044	[-0.049, -0.038]	< .001
Personality 6	Social Self-Regulation (Mindset) [†]	(b)	0.254	[0.246, 0.262]	< .001
	Dynamism (Mindset) [†]	(b)	0.159	[0.149, 0.169]	< .001
	Dynamism (Mindset)*	(b)	0.119	[0.093, 0.146]	< .001
	Dynamism (Mindset)*	(b2)	0.108	[0.004, 0.212]	.042
	Social Self-Regulation (Mindset)*	(b)	0.102	[0.076, 0.127]	< .001

Note:

(b) = Linear model, (b2) = Quadratic

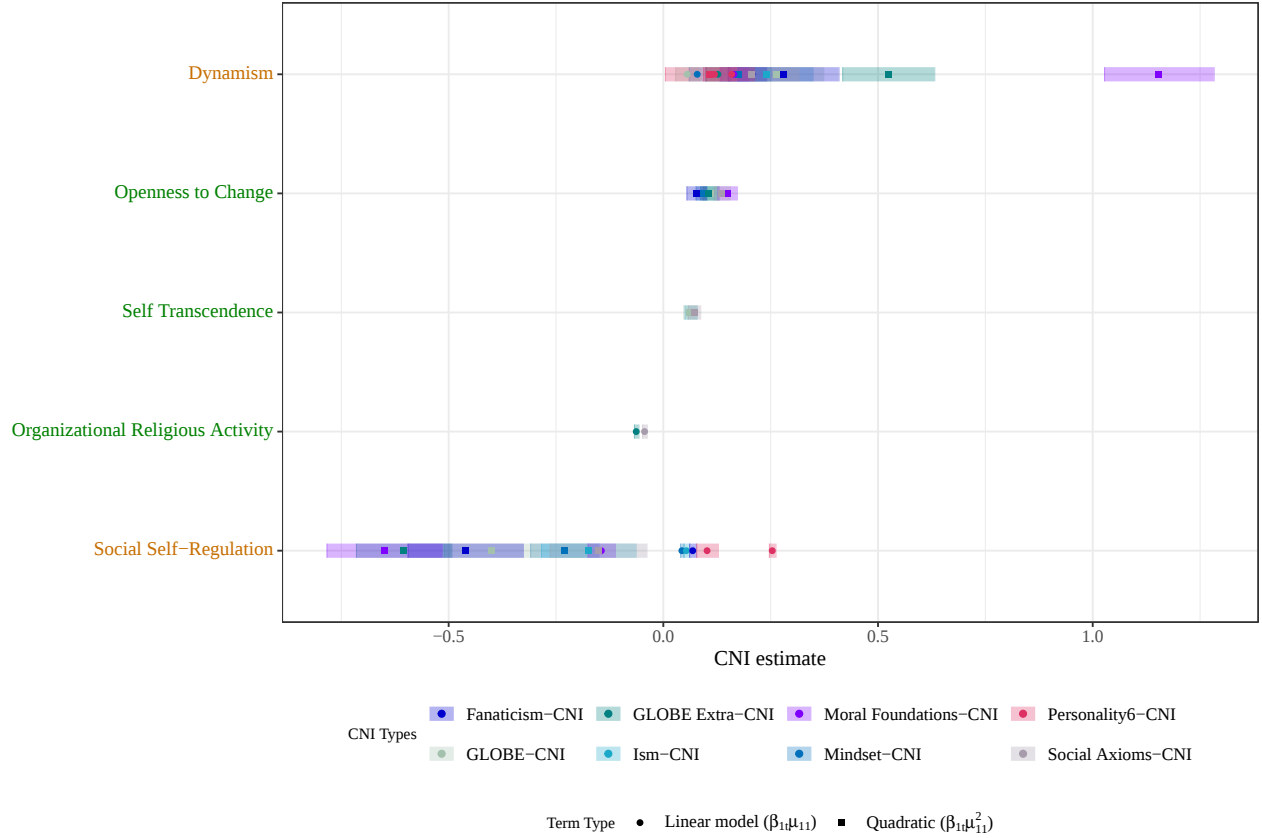
* Country

[†] Individual

```

strongest5_contMods_CNI %>%
  ggplot(aes(x = modtr, y = estimate, color = cni_type, group = interaction(modtr))) +
    geom_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0, alpha = 0.3, size = 3.8, position = position_dodge(width = 0.4)) +
    geom_point(aes(shape = str_detect(relation, "quadratic")), position = position_dodge(width = 0.4)) +
    scale_shape_manual(
      values = c("FALSE" = 16, "TRUE" = 15),
      labels = c("FALSE" = expression(paste("Linear model (", italic(beta)["1t"], italic(mu)[11], ")")),
                "TRUE" = expression(paste("Quadratic (", italic(beta)["1t"], italic(mu)[11]^2, ")"))),
      name = "Term Type"
    ) +
  scale_color_manual(
    values = c("mindsetCNI" = "#0070BB",
              "ismCNI" = "#1ca9c9",
              "fantcCNI" = "#0000CD",
              "globeCNI" = "#A3C1AD",
              "globeExCNI" = "#008080",
              "mfCNI" = "#8000ff",
              "socAxCNI" = "#a69cac",
              "pty6CNI" = "#DE3163"),
    labels = c("mindsetCNI" = "Mindset-CNI",
              "ismCNI" = "Ism-CNI",
              "fantcCNI" = "Fanaticism-CNI",
              "globeCNI" = "GLOBE-CNI",
              "globeExCNI" = "GLOBE Extra-CNI",
              "mfCNI" = "Moral Foundations-CNI",
              "socAxCNI" = "Social Axioms-CNI",
              "pty6CNI" = "Personality6-CNI")
  ) +
  labs(x = NULL,
       y = "CNI estimate",
       color = "CNI Types",
       caption = "<i>Note:</i> <span style='color:#c76e00;'>Personality </span> and <span style='color:#c76e00;'>Social Axioms </span>") +
  coord_flip() +
  theme_bw() +
  theme(plot.title.position = "plot",
        legend.position = "bottom",
        text = element_text(family = "serif", size = 12),
        legend.box = "vertical",
        legend.title = element_text(size = 9.2),
        axis.text.y = element_markdown(
          color = color_mapping[levels(strongest5_contMods_CNI$modtr)],
          size = 11),
        plot.caption = element_markdown(hjust = -.4, size = 8.3) ) +
  guides(color = guide_legend(order = 1),
         shape = guide_legend(order = 2))

```



Note: Personality and Mindset moderators on Y axis

Figure 76: Five Strongest Estimates across CNI types

5 RQ 3: To what extent is CNI related to person characteristics?

The primary goal is to assess whether and how specific categorical moderators (`modtr_cat`) influence the alignment between individual psychological responses (`z_response`) and country-level psychological profiles (`z_etry_response`). The focus is on examining whether the relationship between `z_response` and `z_etry_response` (i.e., the slope of `z_etry_response`) changes depending on the level of `modtr_score`. By including the interaction term `z_etry_response * modtr_score` in the model, the effect of `z_etry_response` on `z_response` is allowed to vary across different levels of `modtr_score`.

By modeling this relationship, the aim is to:

- Determine if the degree of cultural normativity varies across levels of the moderator.
- Understand the interaction between individual and cultural profiles in the context of the moderator.
- Identify significant factors that contribute to variations in CNI.

Model fit is assessed using `car::Anova` wherein the significance of the interaction and the overall model is of interest. Type III sum of squares (focus is on the extent to which the moderator interaction explains variability in the model, above and beyond other main and random effects; Type III is invariant to order effects unlike Type I and accounts for interaction effects unlike Type II). The significant contrasts for each model are retained.

Marginal effects or trends (slopes) were estimated, adjusted for other variables in the model. This is especially useful when dealing with interactions where direct interpretation of coefficients can be challenging. The `emtrends()` function calculates the estimated slopes of `z_etry_response` at each level of `modtr_score`, adjusting for other variables in the model (here, `overall.M`) and accounting for the random effects. By specifying

ing `pairwise ~ modtr_score`, pairwise comparisons of these slopes between different levels of `modtr_score` are computed., The `adjust = "holm"` argument ensures that the p-values for these pairwise comparisons are adjusted to reduce the chance of Type I errors due to multiple testing (multiple comparisons adjustment).

5.1 Tables - All differences

Mindset CNI being the most complex model, it required a different approach for running parallel processing. Here the models are computed first followed by assessing the contrasts between different groups.

```
cni.CatMod_effects_models <- function(cni_profiles_data, modtr_cat) {

  #consists of self,ctry and overall.M profiles
  joined_profiles <- pluck(cni_profiles_data, "self.ctry_profiles") %>%
  left_join(pluck(cni_profiles_data, "overallM_profiles"), by = "item")

  #right data format
  cni.modtr_data <- data2 %>%
    #select moderator scales individual level (pID) scores
    select(pID, modtr_cat) %>%
    pivot_longer(-pID,
      names_to = "modtr", #moderator name
      values_to = "modtr_score") %>% # moderator score
    full_join(joined_profiles, by = c("pID"), relationship = "many-to-many")

  #CNI <- moderator
  cni.modtr_model <- cni.modtr_data %>%
    #cni ~ mod [linear]
    lmer(z_response ~ z_ctry_response * modtr_score + overall.M + (-1 + z_ctry_response | pID), data = cni_profiles_data)

  return(cni.modtr_model)
}
```

The focus here is to understand how the relationship between `z_ctry_response` and `z_response` changes across different levels of `modtr_score`. Slopes of `z_response` with respect to `z_ctry_response` at different values of `modtr_score` are computed. `emtrends()` from the `emmeans` package is used to compute estimated marginal means (EMMs) of trends. The p-values for multiple comparisons are adjusted using Holm's method. The limit for the parametric bootstrap Kenward-Roger method is increased here.

```
#emm_options(pbkrttest.limit = 1623160)
cni.CatMod_effects_trends <- \(cni.modtr_model) {

  #2. contrasts
  trends <- emtrends(cni.modtr_model, pairwise ~ modtr_score,
    var = "z_ctry_response",
    adjust = "holm")

  return(trends)
}

mindsetCNI.CatMod_effects_trends <- map(mindsetCNI.CatMod_effects_models, cni.CatMod_effects_trends)
```

```

cat_mod_names <- c("family_home", "mother_edu", "father_edu", "age_group") # "sex",

# Print all the tables
walk(cat_mod_names, function(var) {
  cat("\n\n")
  print(sig_groups1(mindsetCNI.CatMod_effects_trends, var, "Mindset CNI"))
  cat("\n\n")
})

```

Table 49: Differences in Mindset CNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	0.00	0.01	-0.81	.833
large city - small town or village	-0.02	0.01	-3.63	.002
large city - rural area	-0.02	0.01	-2.40	.065
(medium-sized city) - small town or village	-0.02	0.01	-2.85	.022
(medium-sized city) - rural area	-0.01	0.01	-1.80	.214
small town or village - rural area	0.00	0.01	0.43	.833

Table 50: Differences in Mindset CNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.01	0.01	-1.35	> .999
(associate's or 2-year college degree) - business or trade school	-0.02	0.01	-1.90	> .999
(associate's or 2-year college degree) - grade school or less	0.01	0.01	1.44	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.01	0.01	-1.10	> .999
(associate's or 2-year college degree) - high school diploma	-0.01	0.01	-0.81	> .999
(associate's or 2-year college degree) - some college	-0.02	0.01	-1.50	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.03	0.01	-2.11	.916
(associate's or 2-year college degree) - some high school	0.01	0.01	0.47	> .999
(bachelor's or 4-year college degree) - business or trade school	-0.01	0.01	-0.81	> .999
(bachelor's or 4-year college degree) - grade school or less	0.03	0.01	3.59	.011
(bachelor's or 4-year college degree) - graduate or professional degree	0.00	0.01	0.08	> .999
(bachelor's or 4-year college degree) - high school diploma	0.01	0.01	0.72	> .999
(bachelor's or 4-year college degree) - some college	0.00	0.01	-0.34	> .999

Table 50: Differences in Mindset CNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	-0.01	0.01	-1.26	> .999
(bachelor's or 4-year college degree) - some high school	0.02	0.01	2.21	.739
business or trade school - grade school or less	0.04	0.01	3.99	.002
business or trade school - graduate or professional degree	0.01	0.01	0.74	> .999
business or trade school - high school diploma	0.01	0.01	1.45	> .999
business or trade school - some college	0.00	0.01	0.40	> .999
business or trade school - some graduate school or obtained professional degree	-0.01	0.01	-0.63	> .999
business or trade school - some high school	0.03	0.01	2.74	.182
grade school or less - graduate or professional degree	-0.03	0.01	-2.78	.166
grade school or less - high school diploma	-0.02	0.01	-2.90	.120
grade school or less - some college	-0.03	0.01	-3.41	.022
grade school or less - some graduate school or obtained professional degree	-0.04	0.01	-3.60	.011
grade school or less - some high school	-0.01	0.01	-1.12	> .999
graduate or professional degree - high school diploma	0.00	0.01	0.49	> .999
graduate or professional degree - some college	0.00	0.01	-0.35	> .999
graduate or professional degree - some graduate school or obtained professional degree	-0.02	0.01	-1.18	> .999
graduate or professional degree - some high school	0.02	0.01	1.73	> .999
high school diploma - some college	-0.01	0.01	-0.96	> .999
high school diploma - some graduate school or obtained professional degree	-0.02	0.01	-1.72	> .999
high school diploma - some high school	0.01	0.01	1.56	> .999
some college - some graduate school or obtained professional degree	-0.01	0.01	-0.92	> .999
some college - some high school	0.02	0.01	2.24	.706
some graduate school or obtained professional degree - some high school	0.03	0.01	2.71	.196

Table 51: Differences in Mindset CNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.04	0.01	-3.30	.029
(associate's or 2-year college degree) - business or trade school	-0.04	0.01	-3.49	.015
(associate's or 2-year college degree) - grade school or less	0.00	0.01	0.32	> .999

Table 51: Differences in Mindset CNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - graduate or professional degree	-0.03	0.01	-2.71	.179
(associate's or 2-year college degree) - high school diploma	-0.01	0.01	-0.51	> .999
(associate's or 2-year college degree) - some college	-0.03	0.01	-2.37	.414
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.03	0.01	-1.98	.994
(associate's or 2-year college degree) - some high school	-0.02	0.01	-1.78	> .999
(bachelor's or 4-year college degree) - business or trade school	-0.01	0.01	-0.62	> .999
(bachelor's or 4-year college degree) - grade school or less	0.04	0.01	4.75	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.00	0.01	0.51	> .999
(bachelor's or 4-year college degree) - high school diploma	0.03	0.01	3.95	.003
(bachelor's or 4-year college degree) - some college	0.01	0.01	0.88	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.01	0.01	0.95	> .999
(bachelor's or 4-year college degree) - some high school	0.01	0.01	1.76	> .999
business or trade school - grade school or less	0.05	0.01	4.73	< .001
business or trade school - graduate or professional degree	0.01	0.01	1.00	> .999
business or trade school - high school diploma	0.04	0.01	3.98	.002
business or trade school - some college	0.01	0.01	1.30	> .999
business or trade school - some graduate school or obtained professional degree	0.02	0.01	1.33	> .999
business or trade school - some high school	0.02	0.01	2.09	.807
grade school or less - graduate or professional degree	-0.04	0.01	-3.79	.005
grade school or less - high school diploma	-0.01	0.01	-1.07	> .999
grade school or less - some college	-0.03	0.01	-3.30	.029
grade school or less - some graduate school or obtained professional degree	-0.03	0.01	-2.67	.194
grade school or less - some high school	-0.03	0.01	-2.59	.239
graduate or professional degree - high school diploma	0.03	0.01	2.97	.084
graduate or professional degree - some college	0.00	0.01	0.35	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.01	0.01	0.50	> .999

Table 51: Differences in Mindset CNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
graduate or professional degree - some high school	0.01	0.01	1.13	> .999
high school diploma - some college	-0.02	0.01	-2.47	.325
high school diploma - some graduate school or obtained professional degree	-0.02	0.01	-1.91	> .999
high school diploma - some high school	-0.02	0.01	-1.70	> .999
some college - some graduate school or obtained professional degree	0.00	0.01	0.19	> .999
some college - some high school	0.01	0.01	0.74	> .999
some graduate school or obtained professional degree - some high school	0.01	0.01	0.45	> .999

Table 52: Differences in Mindset CNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.03	0.01	3.50	.003
(18-25) - (36-45)	0.06	0.02	3.40	.003
(18-25) - (46+)	0.05	0.02	2.98	.012
(26-35) - (36-45)	0.03	0.02	1.67	.282
(26-35) - (46+)	0.02	0.02	1.22	.443
(36-45) - (46+)	-0.01	0.02	-0.39	.700

For degrees of freedom, Kenward-Roger approximation was preferred, over Satterthwaite's approximation, as it provides adjusted degrees of freedom and adjusts the covariance matrix of the fixed effects, aiming for more accurate Type I error rates, especially in complex models. When dealing with highly unbalanced data, heteroscedasticity, or models with unequal variances, and multiple random effects, Kenward-Roger provides better variance estimation, improving the accuracy of hypothesis tests.

```
#Explanation for function below
# [which CNI-type]:
#cni_profiles_data <- mindsetCNI_profiles1 [self.ctr_profiles, overallM_profiles]
# [which moderator]:
# "sex", "family_home", "mother_edu", "father_edu", "age_group"
#Model: CNI <- Categorical moderator

#levels(factor(data2$father_edu)) #how many levels?
#choose(9, 2) #check for number of contrasts

#This version of the function is necessary for parallel processing! Moderators are varied.

#cni.CatMod_effects(mindsetCNI_profiles, "family_home")

cni.CatMod_effects <- function(cni_profiles_data, modtr_cat) {

  #consists of self, ctry and overall.M profiles
  joined_profiles <- pluck(cni_profiles_data, "self.ctr_profiles") %>%
```

```

left_join(pluck(cni_profiles_data, "overallM_profiles"), by = "item")

#right data format
cni.modtr_data <- data2 %>%
  #select moderator scales individual level (pID) scores
  select(pID, all_of(modtr_cat)) %>%
  pivot_longer(-pID,
    names_to = "modtr", #moderator name
    values_to = "modtr_score") %>% # moderator score
  full_join(joined_profiles, by = c("pID"), relationship = "many-to-many")

#1. CNI <- moderator
cni.modtr_model <- cni.modtr_data %>%
  #cni ~ mod [linear]
  lmer(z_response ~ z_ctype_response * modtr_score + overall.M + (-1 + z_ctype_response | pID), data = cni_profiles_data)

#save results
#2. model fit
#Deafult = Kenward-Roger Approximation
model_fit <- Anova(cni.modtr_model, type = "III", test.statistic = "F") %>% tidy()
#3. contrasts
trends <- emtrends(cni.modtr_model, pairwise ~ modtr_score,
  var = "z_ctype_response",
  adjust = "holm")

return(list(model_fit, trends))
}

```

5.1.1 Model fit

```

cat_var_names <- c("age_group", "mother_edu", "father_edu",
  "family_home")#"sex",

cat_fit_tbl <- \(cat_var){

  title_cap <- function(s){
    s %>%
      str_replace_all("_", " ") %>%
      str_to_sentence() %>%
      str_replace("edu", "Education")}

  map_dfr(all_cni.catMod_effects,
    pluck, cat_var, "model_fit",
    .id = "CNI_type") %>%
    filter(!str_detect(tolower(term), "intercept")) %>% #distinct(term)
    mutate(term = case_when(
      term == "z_ctype_response" ~ "CNI",
      term == "modtr_score" ~ "Predictor",
      term == "overall.M" ~ "Overall Mean",
      grepl(":", term, fixed = TRUE) ~ "Interaction",

```

```

      TRUE ~ term
    ),
    stars = case_when(
      p.value < .001 ~ "***",
      p.value < .01 ~ "**",
      p.value < .05 ~ "*",
      TRUE ~ ""),
    statistic = sprintf("F(%d, %.0f) = %.2f%s",
      df, Df.res, statistic, stars),
    CNI_type = case_when(
      CNI_type == "ismCNI.cat_effects" ~ "Isms CNI",
      CNI_type == "globeCNI.cat_effects" ~ "Globe CNI",
      CNI_type == "globeExCNI.cat_effects" ~ "Globe Extra CNI",
      CNI_type == "mfCNI.cat_effects" ~ "Moral Foundations CNI",
      CNI_type == "fantcCNI.cat_effects" ~ "Fanaticism CNI",
      CNI_type == "pty6CNI.cat_effects" ~ "Personality 6 CNI",
      CNI_type == "socAxCNI.cat_effects" ~ "Social Axioms CNI",
      TRUE ~ CNI_type)) %>%
    select(CNI_type, term, statistic) %>%
    pivot_wider(names_from = term, values_from = statistic) %>%
    kable(booktabs = T,
      longtable = T,
      format = "latex",
      caption = paste0("ANOVA summary of ", title_cap({{cat_var}}), " individual characteristic mo
    kable_styling() %>%
    column_spec(2, width = "3cm") %>%
    column_spec(3, width = "3cm") %>%
    column_spec(4, width = "3cm") %>%
    column_spec(5, width = "3cm")
  }

```

Table 53: ANOVA summary of Family home individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Isms CNI	F(1, 9021) = 8530.19***	F(3, 308348) = 0.00	F(1, 311302) = 0.02	F(3, 6916) = 4.91**
Globe CNI	F(1, 8921) = 6803.14***	F(3, 286568) = 0.00	F(1, 289174) = 11.73***	F(3, 6869) = 0.90
Globe Extra CNI	F(1, 8665) = 7453.62***	F(3, 327668) = 0.00	F(1, 330243) = 13.56***	F(3, 6872) = 2.81*
Fanaticism CNI	F(1, 16637) = 4830.11***	F(3, 109762) = 0.00	F(1, 111448) = 3.36	F(3, 6896) = 3.05*
Moral Foundations CNI	F(1, 9921) = 3882.38***	F(3, 144886) = 0.00	F(1, 151205) = 85.70***	F(3, 7042) = 5.00**
Social Axioms CNI	F(1, 12499) = 6628.87***	F(3, 201811) = 0.00	F(1, 205165) = 3.34	F(3, 6994) = 11.56***
Personality 6 CNI	F(1, 14073) = 6218.50***	F(3, 268520) = 0.00	F(1, 272591) = 1.22	F(3, 6914) = 3.35*

Table 54: ANOVA summary of Mother Education individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Isms CNI	F(1, 7143) = 1919.25***	F(8, 302086) = 0.00	F(1, 304983) = 0.00	F(8, 6775) = 0.83
Globe CNI	F(1, 7082) = 1521.54***	F(8, 280894) = 0.00	F(1, 283360) = 11.80***	F(8, 6727) = 5.75***
Globe Extra CNI	F(1, 7050) = 1755.68***	F(8, 321182) = 0.00	F(1, 323576) = 14.40***	F(8, 6730) = 8.69***
Fanaticism CNI	F(1, 8422) = 1475.87***	F(8, 107558) = 0.00	F(1, 109147) = 2.21	F(8, 6755) = 4.08***
Moral Foundations CNI	F(1, 7449) = 1122.41***	F(8, 141985) = 0.00	F(1, 148008) = 79.26***	F(8, 6895) = 11.29***
Social Axioms CNI	F(1, 7806) = 1656.75***	F(8, 197907) = 0.00	F(1, 200978) = 2.48	F(8, 6852) = 7.78***
Personality 6 CNI	F(1, 7914) = 1662.02***	F(8, 263245) = 0.00	F(1, 267198) = 1.55	F(8, 6773) = 2.96**

Table 55: ANOVA summary of Father Education individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Isms CNI	F(1, 6998) = 1328.15***	F(8, 299534) = 0.00	F(1, 302433) = 0.06	F(8, 6715) = 3.40***
Globe CNI	F(1, 6922) = 973.52***	F(8, 278364) = 0.00	F(1, 280852) = 12.33***	F(8, 6668) = 9.30***
Globe Extra CNI	F(1, 6902) = 1121.38***	F(8, 318281) = 0.00	F(1, 320715) = 15.58***	F(8, 6670) = 10.95***
Fanaticism CNI	F(1, 7943) = 986.39***	F(8, 106636) = 0.00	F(1, 108234) = 2.12	F(8, 6698) = 3.20**
Moral Foundations CNI	F(1, 7190) = 745.01***	F(8, 140741) = 0.00	F(1, 146703) = 72.91***	F(8, 6833) = 12.73***
Social Axioms CNI	F(1, 7500) = 1161.70***	F(8, 196157) = 0.00	F(1, 199268) = 2.13	F(8, 6795) = 6.23***
Personality 6 CNI	F(1, 7649) = 1159.40***	F(8, 260942) = 0.00	F(1, 264878) = 1.97	F(8, 6715) = 4.51***

Table 56: ANOVA summary of Age group individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Isms CNI	F(1, 12539) = 19910.86***	F(3, 305321) = 0.00	F(1, 308460) = 0.03	F(3, 6849) = 5.61***
Globe CNI	F(1, 12712) = 15571.09***	F(3, 283857) = 0.00	F(1, 286474) = 10.16**	F(3, 6819) = 16.70***
Globe Extra CNI	F(1, 11913) = 17659.84***	F(3, 324575) = 0.00	F(1, 327152) = 13.35***	F(3, 6823) = 13.49***
Fanaticism CNI	F(1, 37113) = 8353.06***	F(3, 108682) = 0.00	F(1, 110379) = 3.13	F(3, 6838) = 1.09
Moral Foundations CNI	F(1, 14923) = 8827.78***	F(3, 143446) = 0.00	F(1, 149726) = 84.48***	F(3, 6979) = 7.29***

Social Axioms CNI	F(1, 23540) = 13568.42***	F(3, 199862) = 0.00	F(1, 203215) = 3.29	F(3, 6940) = 18.24***
Personality 6 CNI	F(1, 29559) = 11498.02***	F(3, 265918) = 0.00	F(1, 269986) = 1.35	F(3, 6861) = 8.99***

For making model comparisons. Issues with running model fit for Mindset-CNI were encountered. The data was too large for `car::Anova` with `statistic = "F"` (tried with 23 cores and 120 GB RAM on Talapas); code kept crashing. As an alternative, chi square test comparing the H0(null model; no moderator) and H1(alternative model; with moderator) was computed for every moderator. `car::Anova` with `statistic = "Chisq"` is used to facilitate model comparison across all CNI models.

```
cni.CatMod_AnovaChisq <- function(cni_profiles_data, modtr_cat) {

  #consists of self,ctry and overall.M profiles
  joined_profiles <-
    pluck(all_profiles, cni_profiles_data, "self.ctry_profiles") %>%
    left_join(pluck(all_profiles , cni_profiles_data, "overallM_profiles"), by = "item")

  #right data format
  cni.modtr_data <- data2 %>%
    #select moderator scales individual level (pID) scores
    select(pID, all_of(modtr_cat)) %>%
    pivot_longer(-pID,
      names_to = "modtr", #moderator name
      values_to = "modtr_score") %>% # moderator score
    full_join(joined_profiles, by = c("pID"), relationship = "many-to-many")

  #1. CNI <- moderator
  cni.modtr_model <- cni.modtr_data %>%
    #cni ~ mod [linear]
    lmer(z_response ~ z_ctry_response*modtr_score + overall.M + (-1 + z_ctry_response | pID), data

    #save results
  #2. model fit
  #Deafult = Kenward-Roger Approximation
  model_fit <- Anova(cni.modtr_model, type = "III", test.statistic = "Chisq") %>% broom::tidy()

  return(model_fit)
}

#cni.CatMod_AnovaChisq("pty6CNI_profiles", "sex")

cni.CatMod_AnovaChisq_details <- expand_grid(
  cni = names(all_profiles),
  modtr = c("sex", "age_group" , "mother_edu","father_edu",
    "family_home"))

cat_fit.chisq_tbl <- function(cat_var) {

  title_cap <- function(s) {
    s %>%
      str_replace_all("_", " ") %>%

```

```

    str_to_sentence() %>%
    str_replace("edu", "Education")
  }

bind_rows(cni.cat_AnovaChisq_fit, .id = "CNI_type") %>%
  separate(CNI_type, into = c("CNI_type", "profiles", "moderator"), sep = "_", extra = "merge") %>%
  filter(moderator == cat_var) %>%
  select(-profiles, -moderator)%>%
  filter(!str_detect(tolower(term), "intercept")) %>%
  mutate(
    term = case_when(
      term == "z_etry_response" ~ "CNI",
      term == "modtr_score" ~ "Predictor",
      term == "overall.M" ~ "Overall Mean",
      grepl(":", term, fixed = TRUE) ~ "Interaction",
      TRUE ~ term),
    stars = case_when(
      p.value < .001 ~ "***",
      p.value < .01 ~ "**",
      p.value < .05 ~ "*",
      TRUE ~ ""
    ),
    statistic = sprintf("š(%d) = %.2f%s",
                        df, statistic, stars),
    CNI_type = case_when(
      CNI_type == "mindsetCNI" ~ "Mindset CNI",
      CNI_type == "ismCNI" ~ "Isms-Mindset CNI",
      CNI_type == "fantcCNI" ~ "Fanaticism-Mindset CNI",
      CNI_type == "globeCNI" ~ "Globe-Mindset CNI",
      CNI_type == "globeExCNI" ~ "Globe Extra-Mindset CNI",
      CNI_type == "mfCNI" ~ "Moral Foundations-Mindset CNI",
      CNI_type == "socAxCNI" ~ "Social Axioms-Mindset CNI",
      CNI_type == "pty6CNI" ~ "Personality 6 CNI",
      TRUE ~ CNI_type
    ) %>%
  select(CNI_type, term, statistic) %>%
  pivot_wider(names_from = term, values_from = statistic) %>%
  kable(booktabs = T,
        longtable = T,
        format = "latex",
        caption = paste0("ANOVA summary of ", title_cap({cat_var}), " individual characteristic models"),
  kable_styling() %>%
  column_spec(2, width = "3cm") %>%
  column_spec(3, width = "3cm") %>%
  column_spec(4, width = "3cm") %>%
  column_spec(5, width = "3cm")})

```

Table 57: ANOVA summary of Age group individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Mindset CNI	š(1) = 50800.54***	š(3) = 0.00	š(1) = 58.06***	š(3) = 30.75***
Personality 6 CNI	š(1) = 11498.05***	š(3) = 0.00	š(1) = 1.35	š(3) = 26.97***

Isms-Mindset CNI	$\check{s}(1) = 19910.89^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 0.03$	$\check{s}(3) = 16.84^{***}$
Fanaticism-Mindset CNI	$\check{s}(1) = 8353.08^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 3.13$	$\check{s}(3) = 3.28$
Globe-Mindset CNI	$\check{s}(1) = 15571.11^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 10.16^{**}$	$\check{s}(3) = 50.10^{***}$
Globe Extra-Mindset CNI	$\check{s}(1) = 17659.85^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 13.35^{***}$	$\check{s}(3) = 40.48^{***}$
Moral Foundations-Mindset CNI	$\check{s}(1) = 8827.85^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 84.48^{***}$	$\check{s}(3) = 21.87^{***}$
Social Axioms-Mindset CNI	$\check{s}(1) = 13568.46^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 3.29$	$\check{s}(3) = 54.73^{***}$

Table 58: ANOVA summary of Mother Education individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Mindset CNI	$\check{s}(1) = 4540.18^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 64.71^{***}$	$\check{s}(8) = 30.50^{***}$
Personality 6 CNI	$\check{s}(1) = 1662.02^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 1.55$	$\check{s}(8) = 23.71^{**}$
Isms-Mindset CNI	$\check{s}(1) = 1919.25^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 0.00$	$\check{s}(8) = 6.67$
Fanaticism-Mindset CNI	$\check{s}(1) = 1475.87^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 2.21$	$\check{s}(8) = 32.67^{***}$
Globe-Mindset CNI	$\check{s}(1) = 1521.54^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 11.80^{***}$	$\check{s}(8) = 46.04^{***}$
Globe Extra-Mindset CNI	$\check{s}(1) = 1755.68^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 14.40^{***}$	$\check{s}(8) = 69.55^{***}$
Moral Foundations-Mindset CNI	$\check{s}(1) = 1122.42^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 79.26^{***}$	$\check{s}(8) = 90.30^{***}$
Social Axioms-Mindset CNI	$\check{s}(1) = 1656.75^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 2.48$	$\check{s}(8) = 62.27^{***}$

Table 59: ANOVA summary of Father Education individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Mindset CNI	$\check{s}(1) = 3233.35^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 69.73^{***}$	$\check{s}(8) = 46.84^{***}$
Personality 6 CNI	$\check{s}(1) = 1159.40^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 1.97$	$\check{s}(8) = 36.07^{***}$
Isms-Mindset CNI	$\check{s}(1) = 1328.15^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 0.06$	$\check{s}(8) = 27.17^{***}$
Fanaticism-Mindset CNI	$\check{s}(1) = 986.39^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 2.12$	$\check{s}(8) = 25.57^{**}$
Globe-Mindset CNI	$\check{s}(1) = 973.52^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 12.33^{***}$	$\check{s}(8) = 74.41^{***}$
Globe Extra-Mindset CNI	$\check{s}(1) = 1121.38^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 15.58^{***}$	$\check{s}(8) = 87.60^{***}$
Moral Foundations-Mindset CNI	$\check{s}(1) = 745.01^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 72.91^{***}$	$\check{s}(8) = 101.84^{***}$
Social Axioms-Mindset CNI	$\check{s}(1) = 1161.70^{***}$	$\check{s}(8) = 0.00$	$\check{s}(1) = 2.13$	$\check{s}(8) = 49.81^{***}$

Table 60: ANOVA summary of Family home individual characteristic models

CNI_type	CNI	Predictor	Overall Mean	Interaction
Mindset CNI	$\check{s}(1) = 21121.78^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 62.24^{***}$	$\check{s}(3) = 16.42^{***}$
Personality 6 CNI	$\check{s}(1) = 6218.51^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 1.22$	$\check{s}(3) = 10.05^*$
Isms-Mindset CNI	$\check{s}(1) = 8530.19^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 0.02$	$\check{s}(3) = 14.72^{**}$
Fanaticism-Mindset CNI	$\check{s}(1) = 4830.12^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 3.36$	$\check{s}(3) = 9.14^*$
Globe-Mindset CNI	$\check{s}(1) = 6803.14^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 11.73^{***}$	$\check{s}(3) = 2.70$
Globe Extra-Mindset CNI	$\check{s}(1) = 7453.62^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 13.56^{***}$	$\check{s}(3) = 8.44^*$
Moral Foundations-Mindset CNI	$\check{s}(1) = 3882.40^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 85.70^{***}$	$\check{s}(3) = 15.01^{**}$
Social Axioms-Mindset CNI	$\check{s}(1) = 6628.88^{***}$	$\check{s}(3) = 0.00$	$\check{s}(1) = 3.34$	$\check{s}(3) = 34.67^{***}$

5.1.2 Marginal effects

Estimated slopes (trends)

```

cat_emtrends_tbl <- \(cat_var){
  title_cap <- function(s){
    s %>%
      str_replace_all("_", " ") %>%
      str_to_sentence() %>%
      str_replace("edu", "Education")}
  group_names <- c("Mindset CNI", "Isms-Mindset CNI", "Fanaticism-Mindset CNI", "Globe-Mindset CNI",

full_df <-
  rbind(
mindsetCNI.CatMod_effects_trends %>%
  pluck(cat_var, "emtrends") %>%
  as_tibble() %>%
  mutate(CNI_type = "mindsetCNI.cat_effects",
    .before = modtr_score),
  map_df(all_cni.catMod_effects,
    ~as_tibble(summary(pluck(.x, cat_var, "trends", "emtrends"))),
      .id = "CNI_type"))

full_df %>%
  mutate(CNI_type = case_when(
    CNI_type == "mindsetCNI.cat_effects" ~ "Mindset CNI",
    CNI_type == "ismCNI.cat_effects" ~ "Isms-Mindset CNI",
    CNI_type == "globeCNI.cat_effects" ~ "Globe-Mindset CNI",
    CNI_type == "globeExCNI.cat_effects" ~ "Globe Extra-Mindset CNI",
    CNI_type == "fantcCNI.cat_effects" ~ "Fanaticism-Mindset CNI",
    CNI_type == "mfCNI.cat_effects" ~ "Moral Foundations-Mindset CNI",
    CNI_type == "socAxCNI.cat_effects" ~ "Social Axioms-Mindset CNI",
    CNI_type == "pty6CNI.cat_effects" ~ "Personality6 CNI",
    TRUE ~ CNI_type)) %>%
  select(-CNI_type, -df) %>%
  mutate(across(where(is.numeric), printnum)) %>%
  kable(booktabs = T,
    longtable = T,
    format = "latex",
    col.names = c("Group", "CNI", "SE", "Lower", "Upper"),
    caption = paste0("Expected CNI by ", title_cap({cat_var})), ".") %>% #
  kable_styling(latex_options = c("repeat_header", "longtable")) %>%
  {reduce(seq_along(group_names),
    .init = .,
    ~ group_rows(.x, group_names[.y], n_distinct(full_df$modtr_score)*(.y-1)+1, n_distinct(full
column_spec(1, width = "7.2cm") %>%
  add_header_above(c(" " = 3, "95% CI" = 2))
}

```

Table 61: Expected CNI by Family home.

Group	CNI	SE	95% CI	
			Lower	Upper
Mindset CNI				
large city	0.58	0.00	0.57	0.59
medium-sized city	0.58	0.00	0.58	0.59

Table 61: Expected CNI by Family home. (continued)

Group	CNI	SE	Lower	Upper
small town or village	0.60	0.00	0.59	0.61
rural area	0.60	0.01	0.58	0.61
Isms-Mindset CNI				
large city	0.52	0.01	0.51	0.53
medium-sized city	0.52	0.01	0.51	0.53
small town or village	0.54	0.01	0.53	0.56
rural area	0.54	0.01	0.52	0.56
Fanaticism-Mindset CNI				
large city	0.47	0.01	0.46	0.48
medium-sized city	0.47	0.01	0.46	0.48
small town or village	0.48	0.01	0.46	0.49
rural area	0.46	0.01	0.44	0.48
Globe-Mindset CNI				
large city	0.49	0.01	0.47	0.50
medium-sized city	0.50	0.01	0.48	0.51
small town or village	0.51	0.01	0.50	0.52
rural area	0.49	0.01	0.47	0.50
Globe Extra-Mindset CNI				
large city	0.55	0.01	0.54	0.57
medium-sized city	0.56	0.01	0.55	0.58
small town or village	0.58	0.01	0.57	0.60
rural area	0.57	0.01	0.55	0.59
Moral Foundations-Mindset CNI				
large city	0.43	0.01	0.42	0.45
medium-sized city	0.45	0.01	0.43	0.46
small town or village	0.47	0.01	0.45	0.49
rural area	0.44	0.01	0.41	0.46
Social Axioms-Mindset CNI				
large city	0.51	0.01	0.50	0.53
medium-sized city	0.52	0.01	0.51	0.53
small town or village	0.56	0.01	0.54	0.57
rural area	0.56	0.01	0.54	0.58
Personality6 CNI				
large city	0.48	0.01	0.47	0.49
medium-sized city	0.48	0.01	0.47	0.49
small town or village	0.50	0.01	0.49	0.51
rural area	0.51	0.01	0.49	0.52

Table 62: Expected CNI by Mother Education.

Group	CNI	SE	95% CI	
			Lower	Upper
Mindset CNI				
associate's or 2-year college degree	0.58	0.01	0.56	0.60
bachelor's or 4-year college degree	0.60	0.01	0.58	0.61
business or trade school	0.60	0.01	0.59	0.62

Table 62: Expected CNI by Mother Education. (continued)

Group	CNI	SE	Lower	Upper
grade school or less	0.57	0.01	0.55	0.58
graduate or professional degree	0.59	0.01	0.58	0.61
high school diploma	0.59	0.01	0.58	0.60
some college	0.60	0.01	0.58	0.61
some graduate school or obtained	0.61	0.01	0.59	0.63
professional degree				
some high school	0.58	0.01	0.56	0.59
Isms-Mindset CNI				
associate's or 2-year college degree	0.52	0.01	0.50	0.55
bachelor's or 4-year college degree	0.52	0.01	0.51	0.54
business or trade school	0.53	0.01	0.51	0.55
grade school or less	0.51	0.01	0.50	0.53
graduate or professional degree	0.53	0.01	0.51	0.55
high school diploma	0.53	0.01	0.51	0.54
some college	0.53	0.01	0.51	0.55
some graduate school or obtained	0.55	0.01	0.52	0.57
professional degree				
some high school	0.51	0.01	0.50	0.53
Fanaticism-Mindset CNI				
associate's or 2-year college degree	0.47	0.01	0.45	0.49
bachelor's or 4-year college degree	0.49	0.01	0.47	0.50
business or trade school	0.49	0.01	0.47	0.51
grade school or less	0.43	0.01	0.41	0.45
graduate or professional degree	0.48	0.01	0.46	0.50
high school diploma	0.47	0.01	0.46	0.49
some college	0.48	0.01	0.46	0.50
some graduate school or obtained	0.51	0.01	0.48	0.54
professional degree				
some high school	0.45	0.01	0.43	0.47
Globe-Mindset CNI				
associate's or 2-year college degree	0.50	0.01	0.48	0.53
bachelor's or 4-year college degree	0.51	0.01	0.49	0.52
business or trade school	0.52	0.01	0.50	0.54
grade school or less	0.44	0.01	0.43	0.46
graduate or professional degree	0.51	0.01	0.49	0.53
high school diploma	0.50	0.01	0.49	0.52
some college	0.51	0.01	0.49	0.53
some graduate school or obtained	0.53	0.01	0.50	0.56
professional degree				
some high school	0.47	0.01	0.45	0.49
Globe Extra-Mindset CNI				
associate's or 2-year college degree	0.58	0.02	0.55	0.61
bachelor's or 4-year college degree	0.58	0.01	0.56	0.60
business or trade school	0.58	0.01	0.55	0.60
grade school or less	0.55	0.01	0.53	0.57
graduate or professional degree	0.58	0.01	0.55	0.60
high school diploma	0.57	0.01	0.55	0.59
some college	0.58	0.01	0.55	0.60
some graduate school or obtained	0.63	0.02	0.59	0.66
professional degree				

Table 62: Expected CNI by Mother Education. (continued)

Group	CNI	SE	Lower	Upper
some high school	0.52	0.01	0.50	0.55
Moral Foundations-Mindset CNI				
associate's or 2-year college degree	0.48	0.01	0.45	0.51
bachelor's or 4-year college degree	0.46	0.01	0.44	0.48
business or trade school	0.48	0.01	0.46	0.51
grade school or less	0.37	0.01	0.35	0.39
graduate or professional degree	0.47	0.01	0.44	0.50
high school diploma	0.46	0.01	0.45	0.48
some college	0.46	0.01	0.44	0.49
some graduate school or obtained	0.47	0.02	0.43	0.50
professional degree				
some high school	0.42	0.01	0.40	0.45
Social Axioms-Mindset CNI				
associate's or 2-year college degree	0.51	0.01	0.48	0.53
bachelor's or 4-year college degree	0.54	0.01	0.52	0.56
business or trade school	0.56	0.01	0.54	0.58
grade school or less	0.48	0.01	0.47	0.50
graduate or professional degree	0.55	0.01	0.53	0.57
high school diploma	0.55	0.01	0.53	0.56
some college	0.54	0.01	0.52	0.56
some graduate school or obtained	0.57	0.02	0.54	0.60
professional degree				
some high school	0.52	0.01	0.51	0.54
Personality6 CNI				
associate's or 2-year college degree	0.48	0.01	0.46	0.50
bachelor's or 4-year college degree	0.51	0.01	0.49	0.52
business or trade school	0.50	0.01	0.48	0.52
grade school or less	0.47	0.01	0.45	0.48
graduate or professional degree	0.50	0.01	0.47	0.52
high school diploma	0.48	0.01	0.47	0.50
some college	0.51	0.01	0.49	0.53
some graduate school or obtained	0.51	0.01	0.48	0.54
professional degree				
some high school	0.48	0.01	0.46	0.50

Table 63: Expected CNI by Father Education.

Group	CNI	SE	95% CI	
			Lower	Upper
Mindset CNI				
associate's or 2-year college degree	0.56	0.01	0.55	0.58
bachelor's or 4-year college degree	0.60	0.01	0.59	0.61
business or trade school	0.61	0.01	0.59	0.62
grade school or less	0.56	0.01	0.55	0.57
graduate or professional degree	0.60	0.01	0.58	0.61
high school diploma	0.57	0.01	0.56	0.58
some college	0.59	0.01	0.58	0.61

Table 63: Expected CNI by Father Education. (continued)

Group	CNI	SE	Lower	Upper
some graduate school or obtained professional degree	0.59	0.01	0.57	0.61
some high school	0.59	0.01	0.57	0.60
Isms-Mindset CNI				
associate's or 2-year college degree	0.50	0.01	0.47	0.52
bachelor's or 4-year college degree	0.54	0.01	0.53	0.56
business or trade school	0.54	0.01	0.52	0.55
grade school or less	0.50	0.01	0.48	0.52
graduate or professional degree	0.53	0.01	0.52	0.55
high school diploma	0.51	0.01	0.50	0.53
some college	0.52	0.01	0.50	0.54
some graduate school or obtained professional degree	0.52	0.01	0.49	0.54
some high school	0.54	0.01	0.52	0.56
Fanaticism-Mindset CNI				
associate's or 2-year college degree	0.44	0.01	0.41	0.46
bachelor's or 4-year college degree	0.50	0.01	0.48	0.51
business or trade school	0.49	0.01	0.47	0.51
grade school or less	0.41	0.01	0.39	0.43
graduate or professional degree	0.49	0.01	0.47	0.51
high school diploma	0.45	0.01	0.43	0.47
some college	0.47	0.01	0.45	0.49
some graduate school or obtained professional degree	0.48	0.01	0.46	0.51
some high school	0.46	0.01	0.44	0.48
Globe-Mindset CNI				
associate's or 2-year college degree	0.47	0.01	0.44	0.49
bachelor's or 4-year college degree	0.52	0.01	0.51	0.53
business or trade school	0.52	0.01	0.51	0.54
grade school or less	0.43	0.01	0.41	0.45
graduate or professional degree	0.52	0.01	0.50	0.53
high school diploma	0.48	0.01	0.46	0.49
some college	0.49	0.01	0.47	0.51
some graduate school or obtained professional degree	0.51	0.01	0.48	0.53
some high school	0.48	0.01	0.46	0.50
Globe Extra-Mindset CNI				
associate's or 2-year college degree	0.54	0.02	0.50	0.57
bachelor's or 4-year college degree	0.59	0.01	0.57	0.61
business or trade school	0.59	0.01	0.56	0.61
grade school or less	0.54	0.01	0.51	0.56
graduate or professional degree	0.58	0.01	0.55	0.60
high school diploma	0.55	0.01	0.53	0.57
some college	0.56	0.01	0.54	0.59
some graduate school or obtained professional degree	0.57	0.02	0.54	0.60
some high school	0.56	0.01	0.54	0.59
Moral Foundations-Mindset CNI				
associate's or 2-year college degree	0.45	0.02	0.42	0.49

Table 63: Expected CNI by Father Education. (continued)

Group	CNI	SE	Lower	Upper
bachelor's or 4-year college degree	0.48	0.01	0.46	0.49
business or trade school	0.49	0.01	0.47	0.52
grade school or less	0.36	0.01	0.33	0.38
graduate or professional degree	0.48	0.01	0.45	0.50
high school diploma	0.43	0.01	0.41	0.45
some college	0.44	0.01	0.42	0.47
some graduate school or obtained	0.44	0.02	0.41	0.47
professional degree				
some high school	0.44	0.01	0.42	0.47
Social Axioms-Mindset CNI				
associate's or 2-year college degree	0.49	0.01	0.46	0.52
bachelor's or 4-year college degree	0.55	0.01	0.54	0.57
business or trade school	0.55	0.01	0.53	0.57
grade school or less	0.48	0.01	0.46	0.50
graduate or professional degree	0.55	0.01	0.53	0.57
high school diploma	0.52	0.01	0.50	0.54
some college	0.53	0.01	0.51	0.55
some graduate school or obtained	0.54	0.01	0.51	0.57
professional degree				
some high school	0.53	0.01	0.51	0.56
Personality6 CNI				
associate's or 2-year college degree	0.46	0.01	0.44	0.49
bachelor's or 4-year college degree	0.50	0.01	0.49	0.52
business or trade school	0.50	0.01	0.49	0.52
grade school or less	0.45	0.01	0.43	0.47
graduate or professional degree	0.49	0.01	0.47	0.51
high school diploma	0.47	0.01	0.45	0.49
some college	0.50	0.01	0.48	0.52
some graduate school or obtained	0.50	0.01	0.47	0.52
professional degree				
some high school	0.50	0.01	0.48	0.52

Table 64: Expected CNI by Age group.

Group	CNI	SE	95% CI	
			Lower	Upper
Mindset CNI				
18-25	0.59	0.00	0.59	0.60
26-35	0.56	0.01	0.55	0.58
36-45	0.53	0.02	0.50	0.57
46+	0.54	0.02	0.51	0.58
Isms-Mindset CNI				
18-25	0.53	0.00	0.52	0.54
26-35	0.49	0.01	0.47	0.51
36-45	0.48	0.02	0.43	0.53
46+	0.50	0.02	0.45	0.54
Fanaticism-Mindset CNI				

Table 64: Expected CNI by Age group. (continued)

Group	CNI	SE	Lower	Upper
18-25	0.48	0.00	0.47	0.49
26-35	0.43	0.01	0.41	0.45
36-45	0.37	0.02	0.32	0.42
46+	0.37	0.02	0.33	0.42
Globe-Mindset CNI				
18-25	0.50	0.00	0.49	0.51
26-35	0.46	0.01	0.44	0.48
36-45	0.40	0.03	0.35	0.45
46+	0.42	0.02	0.37	0.47
Globe Extra-Mindset CNI				
18-25	0.57	0.01	0.56	0.58
26-35	0.55	0.01	0.53	0.58
36-45	0.52	0.03	0.46	0.58
46+	0.56	0.03	0.51	0.62
Moral Foundations-Mindset CNI				
18-25	0.45	0.00	0.44	0.46
26-35	0.42	0.01	0.40	0.45
36-45	0.34	0.03	0.28	0.40
46+	0.39	0.03	0.33	0.45
Social Axioms-Mindset CNI				
18-25	0.54	0.00	0.53	0.55
26-35	0.48	0.01	0.46	0.50
36-45	0.47	0.03	0.42	0.52
46+	0.41	0.02	0.36	0.46
Personality6 CNI				
18-25	0.49	0.00	0.48	0.50
26-35	0.47	0.01	0.44	0.49
36-45	0.42	0.02	0.37	0.46
46+	0.41	0.02	0.37	0.46

```

cat_emptrends_plot <- \(cat_var){

  xtitle <- function(s){
    s %>%
    str_replace_all("_", " ") %>%
    str_to_sentence() %>%
    str_replace("edu", "Education")}

plot_data <- rbind(
  mindsetCNI.CatMod_effects_trends %>%
    pluck(cat_var, "emptrends") %>%
    as_tibble() %>%
    mutate(CNI_type = "mindsetCNI.cat_effects",
           .before = modtr_score),
  map_df(all_cni.catMod_effects,
    ~as_tibble(summary(pluck(.x, cat_var, "trends", "emptrends"))),
    .id = "CNI_type")) %>%

```

```

    mutate(CNI_type = case_when(
      CNI_type == "mindsetCNI.cat_effects" ~ "Mindset CNI",
      CNI_type == "ismCNI.cat_effects" ~ "Isms-Mindset CNI",
      CNI_type == "globeCNI.cat_effects" ~ "Globe-Mindset CNI",
      CNI_type == "globeExCNI.cat_effects" ~ "Globe Extra-Mindset CNI",
      CNI_type == "fantcCNI.cat_effects" ~ "Fanaticism-Mindset CNI",
      CNI_type == "mfCNI.cat_effects" ~ "Moral Foundations-Mindset CNI",
      CNI_type == "socAxCNI.cat_effects" ~ "Social Axioms-Mindset CNI",
      CNI_type == "pty6CNI.cat_effects" ~ "Personality6 CNI",
      TRUE ~ CNI_type # keep original if no match
    ))

# Create the plot
ggplot(plot_data, aes(x = modtr_score, y = z_etry_response.trend, fill = modtr_score)) +
  geom_bar(stat = "identity", position = position_dodge()) +
  geom_errorbar(aes(ymin = asymp.LCL, ymax = asymp.UCL),
    width = 0.2, position = position_dodge(0.9)) +
  scale_y_continuous(limits = c(0, 1), expand = c(0, 0)) +
  coord_flip() +
  facet_wrap(~ CNI_type, ncol = 2) +
  labs(x = xtitle({{cat_var}}),
    y = "Estimated Marginal Trend",
    fill = "Levels") +
  theme_bw() +
  theme(text = element_text(family = "serif"),
    legend.position = "bottom",
    axis.text.y = element_blank(),
    axis.ticks.y = element_blank()
    ## Control legend text size
    # legend.text = element_text(size = 6.4),
    # legend.title = element_text(size = 7.6),
    ## Control legend key size
    # legend.key.size = unit(0.6, "lines"),
    ## Control spacing
    # legend.spacing.x = unit(0.1, 'cm'),
    # legend.spacing.y = unit(0.1, 'cm'),
    ## Optional: reduce margin around legend
    # legend.margin = margin(t = 0, r = 0, b = 0, l = 0, unit = "pt")
  ) +
  scale_fill_brewer(palette = "Set3")#,
  #guide = guide_legend(ncol = 2))
}

#cat_emptrends_plot("mother_edu")

cat_emptrends_plot_details <- tibble(
  cat_mod = c("family_home", "mother_edu", "father_edu", "age_group")) %>%
  mutate(cat_mod = map_chr(cat_mod, function(x) {
    x %>%
      str_replace_all("_", " ") %>%
      str_to_sentence() %>%
      str_replace("edu", "Education"))}),

```

```
caption = paste0("Expected CNI by ", cat_mod))
```

Contrasts

```
sig_groups2 <- function(CNI.cat_effects, var, cni_name, sig.only = FALSE) {
  # Extract the part of cni_name before the first period
  cni_name_cap <- str_extract(cni_name, "^[^.]+")

  #age_group -> "Age group"
  var_name_cap <- var %>%
    str_replace_all("_", " ") %>%
    str_to_title()

  trends <- CNI.cat_effects %>%
    pluck(cni_name,var, "trends", "contrasts") %>%

  as.data.frame()

  if (sig.only) {
    trends <- filter(trends, p.value < .05)
    cap <- paste0("Significant differences in ", cni_name_cap, " by ", var_name_cap, ".")
  } else {
    cap <- paste0("Differences in ", cni_name_cap, " by ", var_name_cap, ".")
  }

  if (nrow(trends) > 0) {
    trends %>%
      mutate(
        p.value = papaja::printp(p.value),
        across(where(is.numeric), printnum)) %>%
      select(-df) %>%
      kable(booktabs = T,
            caption = cap,
            longtable = T,
            format = "latex",
            col.names = c("Contrast", "Est", "SE", "Z", "p")) %>%
      kable_styling(latex_options = c("repeat_header")) %>%
      column_spec(1, width = "7.2cm")
  }
}
```

Table 65: Differences in ismCNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	0.00	0.01	-0.21	> .999
large city - small town or village	-0.03	0.01	-3.28	.006
large city - rural area	-0.02	0.01	-2.04	.164
(medium-sized city) - small town or village	-0.03	0.01	-3.05	.012
(medium-sized city) - rural area	-0.02	0.01	-1.88	.182
small town or village - rural area	0.01	0.01	0.51	> .999

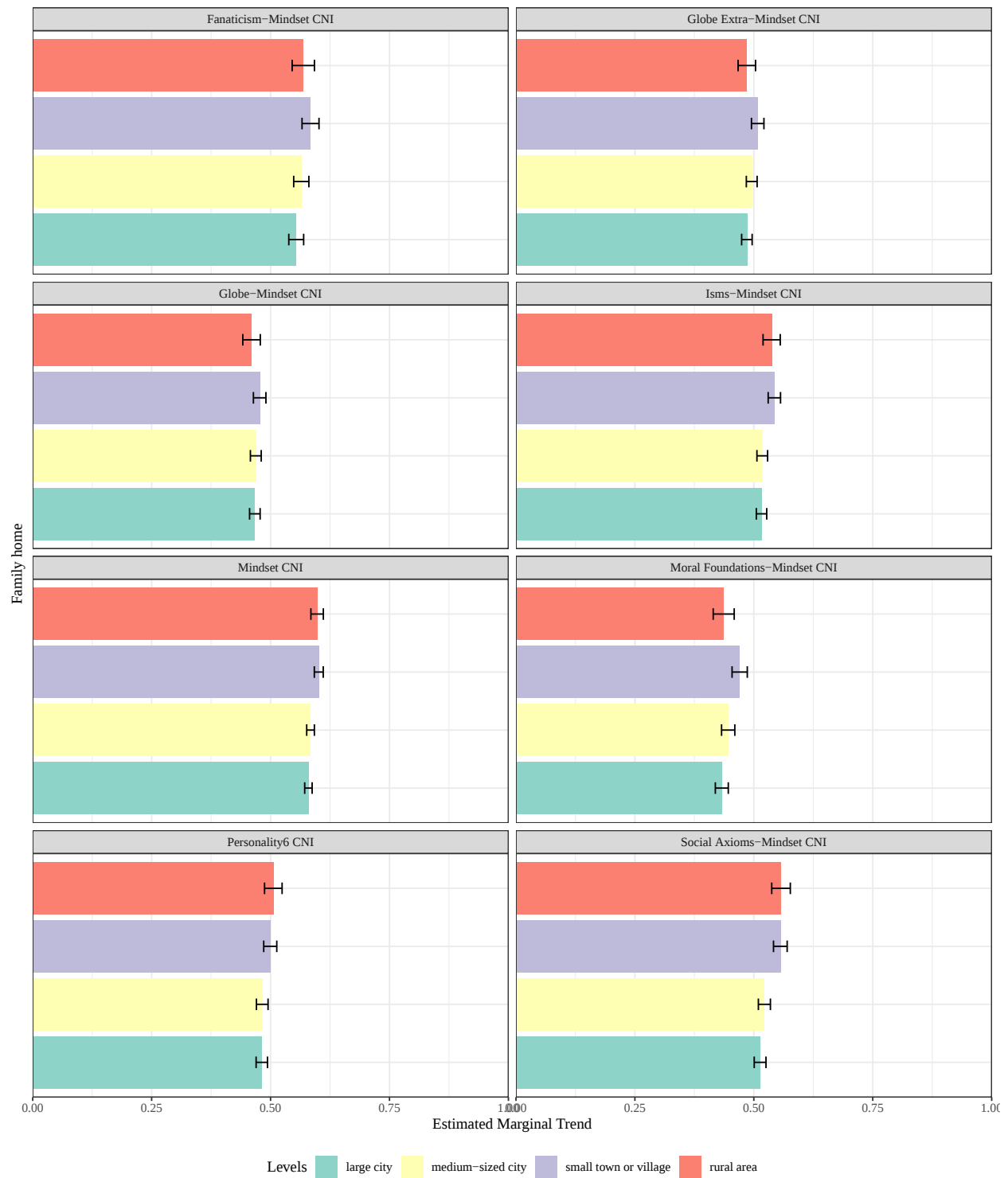


Figure 77: Expected CNI by Family home

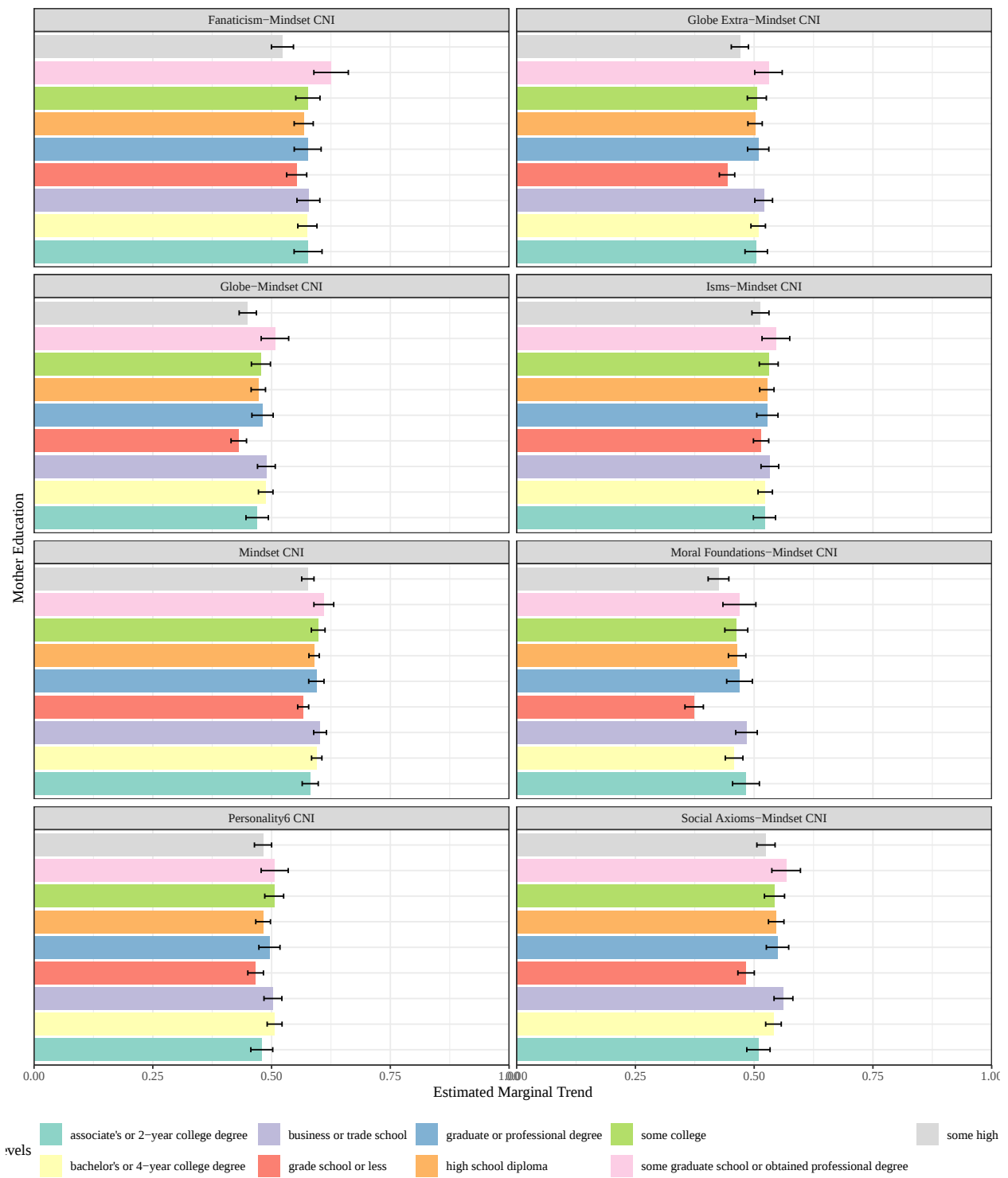


Figure 78: Expected CNI by Mother Education

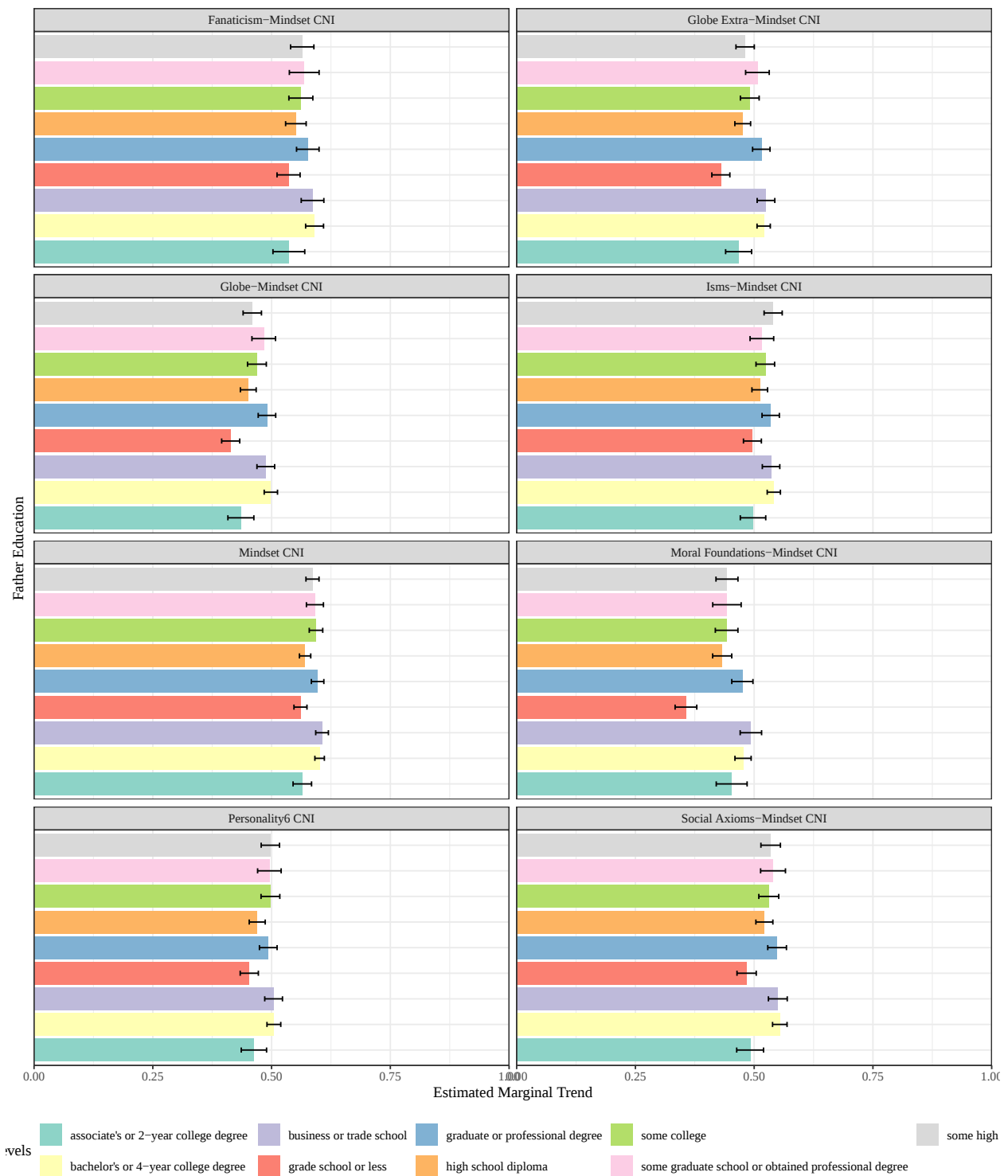


Figure 79: Expected CNI by Father Education

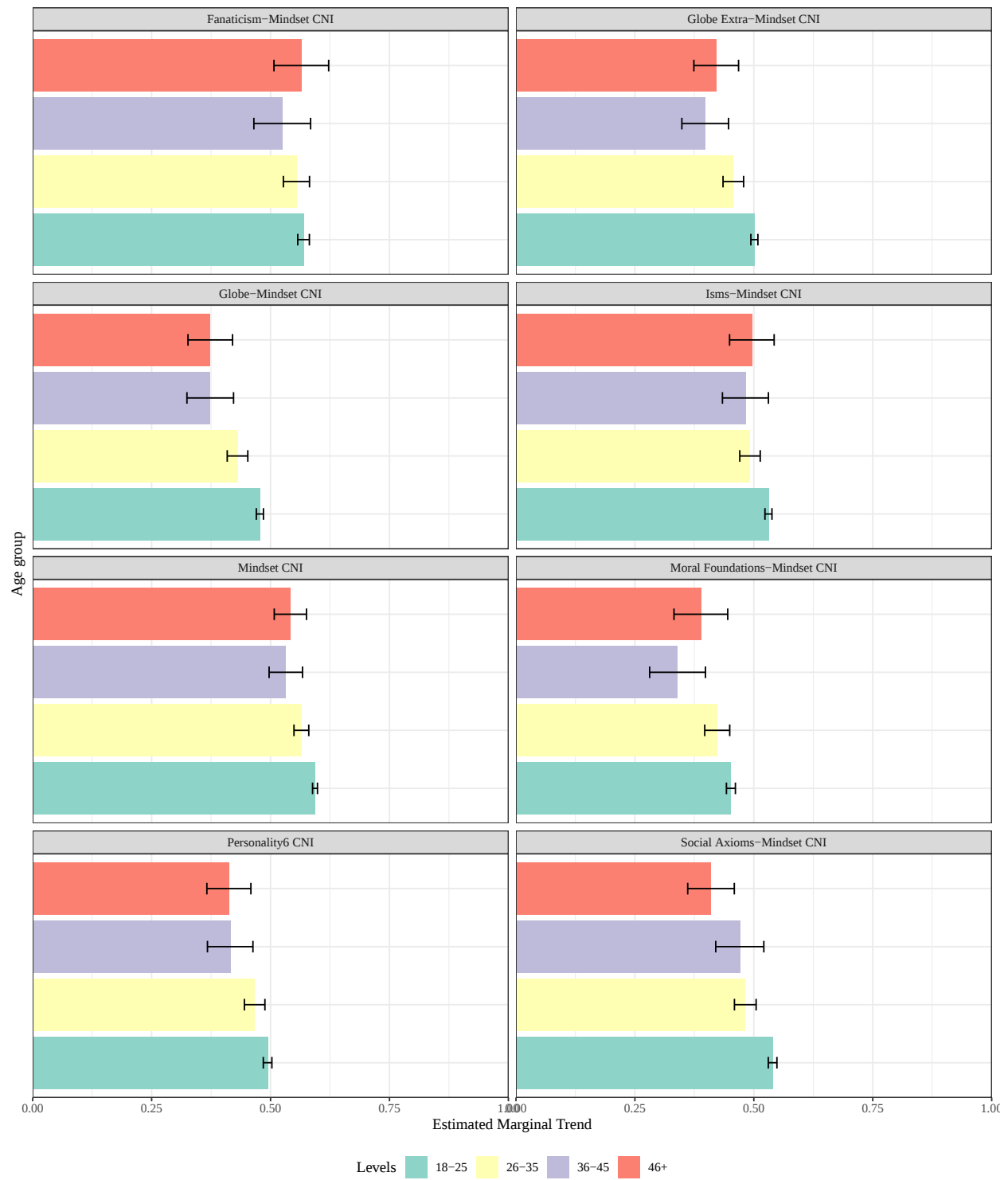


Figure 80: Expected CNI by Age group

Table 66: Differences in ismCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	0.00	0.01	-0.11	> .999
(associate's or 2-year college degree) - business or trade school	-0.01	0.01	-0.76	> .999
(associate's or 2-year college degree) - grade school or less	0.01	0.01	0.50	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.01	0.02	-0.38	> .999
(associate's or 2-year college degree) - high school diploma	-0.01	0.01	-0.36	> .999
(associate's or 2-year college degree) - some college	-0.01	0.02	-0.58	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.02	0.02	-1.27	> .999
(associate's or 2-year college degree) - some high school	0.01	0.01	0.57	> .999
(bachelor's or 4-year college degree) - business or trade school	-0.01	0.01	-0.82	> .999
(bachelor's or 4-year college degree) - grade school or less	0.01	0.01	0.79	> .999
(bachelor's or 4-year college degree) - graduate or professional degree	0.00	0.01	-0.34	> .999
(bachelor's or 4-year college degree) - high school diploma	0.00	0.01	-0.33	> .999
(bachelor's or 4-year college degree) - some college	-0.01	0.01	-0.60	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	-0.02	0.02	-1.36	> .999
(bachelor's or 4-year college degree) - some high school	0.01	0.01	0.86	> .999
business or trade school - grade school or less	0.02	0.01	1.51	> .999
business or trade school - graduate or professional degree	0.01	0.01	0.36	> .999
business or trade school - high school diploma	0.01	0.01	0.53	> .999
business or trade school - some college	0.00	0.01	0.17	> .999
business or trade school - some graduate school or obtained professional degree	-0.01	0.02	-0.73	> .999
business or trade school - some high school	0.02	0.01	1.53	> .999
grade school or less - graduate or professional degree	-0.01	0.01	-0.96	> .999
grade school or less - high school diploma	-0.01	0.01	-1.11	> .999
grade school or less - some college	-0.02	0.01	-1.26	> .999
grade school or less - some graduate school or obtained professional degree	-0.03	0.02	-1.86	> .999
grade school or less - some high school	0.00	0.01	0.11	> .999

Table 66: Differences in ismCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
graduate or professional degree - high school diploma	0.00	0.01	0.08	> .999
graduate or professional degree - some college	0.00	0.01	-0.19	> .999
graduate or professional degree - some graduate school or obtained professional degree	-0.02	0.02	-0.97	> .999
graduate or professional degree - some high school	0.01	0.01	1.01	> .999
high school diploma - some college	0.00	0.01	-0.32	> .999
high school diploma - some graduate school or obtained professional degree	-0.02	0.02	-1.15	> .999
high school diploma - some high school	0.01	0.01	1.16	> .999
some college - some graduate school or obtained professional degree	-0.02	0.02	-0.84	> .999
some college - some high school	0.02	0.01	1.30	> .999
some graduate school or obtained professional degree - some high school	0.03	0.02	1.88	> .999

Table 67: Differences in ismCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.04	0.02	-2.89	.123
(associate's or 2-year college degree) - business or trade school	-0.04	0.02	-2.32	.584
(associate's or 2-year college degree) - grade school or less	0.00	0.02	0.08	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.04	0.02	-2.29	.624
(associate's or 2-year college degree) - high school diploma	-0.01	0.02	-0.90	> .999
(associate's or 2-year college degree) - some college	-0.03	0.02	-1.55	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.02	0.02	-1.01	> .999
(associate's or 2-year college degree) - some high school	-0.04	0.02	-2.56	.312
(bachelor's or 4-year college degree) - business or trade school	0.01	0.01	0.51	> .999
(bachelor's or 4-year college degree) - grade school or less	0.05	0.01	3.87	.004
(bachelor's or 4-year college degree) - graduate or professional degree	0.01	0.01	0.58	> .999
(bachelor's or 4-year college degree) - high school diploma	0.03	0.01	2.78	.170

Table 67: Differences in ismCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - some college	0.02	0.01	1.50	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.03	0.01	1.76	> .999
(bachelor's or 4-year college degree) - some high school	0.00	0.01	0.12	> .999
business or trade school - grade school or less	0.04	0.01	2.98	.098
business or trade school - graduate or professional degree	0.00	0.01	0.06	> .999
business or trade school - high school diploma	0.02	0.01	1.93	> .999
business or trade school - some college	0.01	0.01	0.90	> .999
business or trade school - some graduate school or obtained professional degree	0.02	0.02	1.24	> .999
business or trade school - some high school	0.00	0.01	-0.33	> .999
grade school or less - graduate or professional degree	-0.04	0.01	-2.94	.109
grade school or less - high school diploma	-0.02	0.01	-1.24	> .999
grade school or less - some college	-0.03	0.01	-1.99	> .999
grade school or less - some graduate school or obtained professional degree	-0.02	0.02	-1.27	> .999
grade school or less - some high school	-0.04	0.01	-3.25	.040
graduate or professional degree - high school diploma	0.02	0.01	1.88	> .999
graduate or professional degree - some college	0.01	0.01	0.85	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.02	0.02	1.20	> .999
graduate or professional degree - some high school	-0.01	0.01	-0.39	> .999
high school diploma - some college	-0.01	0.01	-0.91	> .999
high school diploma - some graduate school or obtained professional degree	0.00	0.01	-0.30	> .999
high school diploma - some high school	-0.03	0.01	-2.24	.672
some college - some graduate school or obtained professional degree	0.01	0.02	0.45	> .999
some college - some high school	-0.02	0.01	-1.21	> .999
some graduate school or obtained professional degree - some high school	-0.02	0.02	-1.51	> .999

Table 68: Differences in ismCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.04	0.01	3.44	.003
(18-25) - (36-45)	0.05	0.02	1.95	.255
(18-25) - (46+)	0.03	0.02	1.45	.587
(26-35) - (36-45)	0.01	0.03	0.36	> .999

Table 68: Differences in ismCNI by Age Group. (continued)

Contrast	Est	SE	Z	p
(26-35) - (46+)	0.00	0.03	-0.15	> .999
(36-45) - (46+)	-0.01	0.03	-0.40	> .999

Table 69: Differences in globeCNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	0.00	0.01	-0.27	> .999
large city - small town or village	-0.01	0.01	-1.22	> .999
large city - rural area	0.01	0.01	0.66	> .999
(medium-sized city) - small town or village	-0.01	0.01	-0.96	> .999
(medium-sized city) - rural area	0.01	0.01	0.84	> .999
small town or village - rural area	0.02	0.01	1.53	.762

Table 70: Differences in globeCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.02	0.01	-1.28	> .999
(associate's or 2-year college degree) - business or trade school	-0.02	0.02	-1.28	> .999
(associate's or 2-year college degree) - grade school or less	0.04	0.01	2.70	.189
(associate's or 2-year college degree) - graduate or professional degree	-0.01	0.02	-0.69	> .999
(associate's or 2-year college degree) - high school diploma	0.00	0.01	-0.17	> .999
(associate's or 2-year college degree) - some college	-0.01	0.02	-0.51	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.04	0.02	-1.98	> .999
(associate's or 2-year college degree) - some high school	0.02	0.01	1.32	> .999
(bachelor's or 4-year college degree) - business or trade school	0.00	0.01	-0.12	> .999
(bachelor's or 4-year college degree) - grade school or less	0.06	0.01	5.13	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.01	0.01	0.50	> .999
(bachelor's or 4-year college degree) - high school diploma	0.02	0.01	1.47	> .999
(bachelor's or 4-year college degree) - some college	0.01	0.01	0.80	> .999

Table 70: Differences in globeCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	-0.02	0.02	-1.18	> .999
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.21	.039
business or trade school - grade school or less	0.06	0.01	4.72	< .001
business or trade school - graduate or professional degree	0.01	0.01	0.56	> .999
business or trade school - high school diploma	0.02	0.01	1.42	> .999
business or trade school - some college	0.01	0.01	0.84	> .999
business or trade school - some graduate school or obtained professional degree	-0.02	0.02	-1.04	> .999
business or trade school - some high school	0.04	0.01	3.02	.071
grade school or less - graduate or professional degree	-0.05	0.01	-3.61	.009
grade school or less - high school diploma	-0.04	0.01	-3.74	.006
grade school or less - some college	-0.05	0.01	-3.63	.009
grade school or less - some graduate school or obtained professional degree	-0.08	0.02	-4.55	< .001
grade school or less - some high school	-0.02	0.01	-1.57	> .999
graduate or professional degree - high school diploma	0.01	0.01	0.66	> .999
graduate or professional degree - some college	0.00	0.02	0.22	> .999
graduate or professional degree - some graduate school or obtained professional degree	-0.03	0.02	-1.41	> .999
graduate or professional degree - some high school	0.03	0.01	2.15	.818
high school diploma - some college	-0.01	0.01	-0.44	> .999
high school diploma - some graduate school or obtained professional degree	-0.03	0.02	-2.13	.835
high school diploma - some high school	0.02	0.01	1.89	> .999
some college - some graduate school or obtained professional degree	-0.03	0.02	-1.66	> .999
some college - some high school	0.03	0.01	2.05	.965
some graduate school or obtained professional degree - some high school	0.06	0.02	3.32	.027

Table 71: Differences in globeCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.06	0.02	-4.09	.001
(associate's or 2-year college degree) - business or trade school	-0.05	0.02	-3.15	.041
(associate's or 2-year college degree) - grade school or less	0.02	0.02	1.28	> .999

Table 71: Differences in globeCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - graduate or professional degree	-0.05	0.02	-3.31	.026
(associate's or 2-year college degree) - high school diploma	-0.02	0.02	-0.97	> .999
(associate's or 2-year college degree) - some college	-0.03	0.02	-1.99	.795
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.05	0.02	-2.58	.218
(associate's or 2-year college degree) - some high school	-0.02	0.02	-1.42	> .999
(bachelor's or 4-year college degree) - business or trade school	0.01	0.01	0.92	> .999
(bachelor's or 4-year college degree) - grade school or less	0.08	0.01	7.20	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.01	0.01	0.72	> .999
(bachelor's or 4-year college degree) - high school diploma	0.05	0.01	4.42	< .001
(bachelor's or 4-year college degree) - some college	0.03	0.01	2.44	.312
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.01	0.01	1.05	> .999
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.30	.026
business or trade school - grade school or less	0.07	0.01	5.56	< .001
business or trade school - graduate or professional degree	0.00	0.01	-0.19	> .999
business or trade school - high school diploma	0.04	0.01	2.97	.072
business or trade school - some college	0.02	0.01	1.38	> .999
business or trade school - some graduate school or obtained professional degree	0.00	0.02	0.28	> .999
business or trade school - some high school	0.03	0.01	2.13	.603
grade school or less - graduate or professional degree	-0.08	0.01	-5.78	< .001
grade school or less - high school diploma	-0.04	0.01	-2.94	.076
grade school or less - some college	-0.06	0.01	-4.03	.002
grade school or less - some graduate school or obtained professional degree	-0.07	0.02	-4.42	< .001
grade school or less - some high school	-0.05	0.01	-3.35	.023
graduate or professional degree - high school diploma	0.04	0.01	3.19	.037
graduate or professional degree - some college	0.02	0.01	1.57	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.01	0.02	0.44	> .999

Table 71: Differences in globeCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
graduate or professional degree - some high school	0.03	0.01	2.32	.405
high school diploma - some college	-0.02	0.01	-1.41	> .999
high school diploma - some graduate school or obtained professional degree	-0.03	0.01	-2.17	.573
high school diploma - some high school	-0.01	0.01	-0.66	> .999
some college - some graduate school or obtained professional degree	-0.01	0.02	-0.90	> .999
some college - some high school	0.01	0.01	0.71	> .999
some graduate school or obtained professional degree - some high school	0.02	0.02	1.52	> .999

Table 72: Differences in globeCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.05	0.01	4.15	< .001
(18-25) - (36-45)	0.10	0.03	4.15	< .001
(18-25) - (46+)	0.10	0.02	4.34	< .001
(26-35) - (36-45)	0.06	0.03	2.11	.086
(26-35) - (46+)	0.06	0.03	2.19	.086
(36-45) - (46+)	0.00	0.03	0.00	.999

Table 73: Differences in globeExCNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	-0.01	0.01	-1.34	.550
large city - small town or village	-0.02	0.01	-2.73	.038
large city - rural area	0.00	0.01	0.01	.990
(medium-sized city) - small town or village	-0.01	0.01	-1.48	.550
(medium-sized city) - rural area	0.01	0.01	0.96	.669
small town or village - rural area	0.02	0.01	2.04	.207

Table 74: Differences in globeExCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	0.00	0.01	-0.29	> .999
(associate's or 2-year college degree) - business or trade school	-0.02	0.02	-1.04	> .999
(associate's or 2-year college degree) - grade school or less	0.06	0.01	4.27	< .001
(associate's or 2-year college degree) - graduate or professional degree	0.00	0.02	-0.25	> .999

Table 74: Differences in globeExCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - high school diploma	0.00	0.01	0.17	> .999
(associate's or 2-year college degree) - some college	0.00	0.02	-0.09	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.03	0.02	-1.37	> .999
(associate's or 2-year college degree) - some high school	0.03	0.01	2.30	.489
(bachelor's or 4-year college degree) - business or trade school	-0.01	0.01	-0.96	> .999
(bachelor's or 4-year college degree) - grade school or less	0.07	0.01	5.93	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.00	0.01	0.00	> .999
(bachelor's or 4-year college degree) - high school diploma	0.01	0.01	0.62	> .999
(bachelor's or 4-year college degree) - some college	0.00	0.01	0.22	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	-0.02	0.02	-1.31	> .999
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.27	.029
business or trade school - grade school or less	0.08	0.01	6.25	< .001
business or trade school - graduate or professional degree	0.01	0.01	0.79	> .999
business or trade school - high school diploma	0.02	0.01	1.51	> .999
business or trade school - some college	0.01	0.01	1.05	> .999
business or trade school - some graduate school or obtained professional degree	-0.01	0.02	-0.58	> .999
business or trade school - some high school	0.05	0.01	3.86	.003
grade school or less - graduate or professional degree	-0.07	0.01	-4.74	< .001
grade school or less - high school diploma	-0.06	0.01	-5.36	< .001
grade school or less - some college	-0.06	0.01	-4.87	< .001
grade school or less - some graduate school or obtained professional degree	-0.09	0.02	-5.21	< .001
grade school or less - some high school	-0.03	0.01	-2.23	.566
graduate or professional degree - high school diploma	0.01	0.01	0.49	> .999
graduate or professional degree - some college	0.00	0.02	0.19	> .999
graduate or professional degree - some graduate school or obtained professional degree	-0.02	0.02	-1.17	> .999
graduate or professional degree - some high school	0.04	0.01	2.67	.188
high school diploma - some college	0.00	0.01	-0.30	> .999

Table 74: Differences in globeExCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
high school diploma - some graduate school or obtained professional degree	-0.03	0.02	-1.71	> .999
high school diploma - some high school	0.03	0.01	2.73	.166
some college - some graduate school or obtained professional degree	-0.02	0.02	-1.38	> .999
some college - some high school	0.04	0.01	2.65	.195
some graduate school or obtained professional degree - some high school	0.06	0.02	3.50	.013

Table 75: Differences in globeExCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.05	0.02	-3.41	.017
(associate's or 2-year college degree) - business or trade school	-0.06	0.02	-3.46	.015
(associate's or 2-year college degree) - grade school or less	0.04	0.02	2.23	.466
(associate's or 2-year college degree) - graduate or professional degree	-0.05	0.02	-2.88	.088
(associate's or 2-year college degree) - high school diploma	-0.01	0.02	-0.54	> .999
(associate's or 2-year college degree) - some college	-0.02	0.02	-1.38	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.04	0.02	-2.12	.575
(associate's or 2-year college degree) - some high school	-0.01	0.02	-0.81	> .999
(bachelor's or 4-year college degree) - business or trade school	0.00	0.01	-0.42	> .999
(bachelor's or 4-year college degree) - grade school or less	0.09	0.01	7.68	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.00	0.01	0.43	> .999
(bachelor's or 4-year college degree) - high school diploma	0.04	0.01	4.10	.001
(bachelor's or 4-year college degree) - some college	0.03	0.01	2.43	.287
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.01	0.01	0.92	> .999
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.29	.025
business or trade school - grade school or less	0.10	0.01	7.15	< .001
business or trade school - graduate or professional degree	0.01	0.01	0.76	> .999

Table 75: Differences in globeExCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
business or trade school - high school diploma	0.05	0.01	3.94	.002
business or trade school - some college	0.03	0.01	2.52	.236
business or trade school - some graduate school or obtained professional degree	0.02	0.02	1.16	> .999
business or trade school - some high school	0.04	0.01	3.28	.025
grade school or less - graduate or professional degree	-0.09	0.01	-6.45	< .001
grade school or less - high school diploma	-0.05	0.01	-3.66	.007
grade school or less - some college	-0.06	0.01	-4.44	< .001
grade school or less - some graduate school or obtained professional degree	-0.08	0.02	-4.89	< .001
grade school or less - some high school	-0.05	0.01	-3.77	.005
graduate or professional degree - high school diploma	0.04	0.01	3.17	.035
graduate or professional degree - some college	0.02	0.01	1.80	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.01	0.02	0.53	> .999
graduate or professional degree - some high school	0.03	0.01	2.56	.221
high school diploma - some college	-0.01	0.01	-1.15	> .999
high school diploma - some graduate school or obtained professional degree	-0.03	0.02	-2.06	.626
high school diploma - some high school	-0.01	0.01	-0.40	> .999
some college - some graduate school or obtained professional degree	-0.02	0.02	-1.01	> .999
some college - some high school	0.01	0.01	0.71	> .999
some graduate school or obtained professional degree - some high school	0.03	0.02	1.64	> .999

Table 76: Differences in globeExCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.04	0.01	3.89	< .001
(18-25) - (36-45)	0.10	0.03	4.10	< .001
(18-25) - (46+)	0.08	0.02	3.33	.004
(26-35) - (36-45)	0.06	0.03	2.17	.091
(26-35) - (46+)	0.04	0.03	1.37	.341
(36-45) - (46+)	-0.02	0.03	-0.67	.504

Table 77: Differences in fantcCNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	-0.01	0.01	-1.17	.966

Table 77: Differences in fantcCNI by Family Home. (continued)

Contrast	Est	SE	Z	p
large city - small town or village	-0.03	0.01	-3.01	.016
large city - rural area	-0.01	0.01	-1.17	.966
(medium-sized city) - small town or village	-0.02	0.01	-1.92	.275
(medium-sized city) - rural area	0.00	0.01	-0.33	.966
small town or village - rural area	0.02	0.01	1.13	.966

Table 78: Differences in fantcCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	0.00	0.02	0.09	> .999
(associate's or 2-year college degree) - business or trade school	0.00	0.02	-0.04	> .999
(associate's or 2-year college degree) - grade school or less	0.02	0.02	1.39	> .999
(associate's or 2-year college degree) - graduate or professional degree	0.00	0.02	0.04	> .999
(associate's or 2-year college degree) - high school diploma	0.01	0.02	0.55	> .999
(associate's or 2-year college degree) - some college	0.00	0.02	0.02	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.05	0.02	-2.13	.771
(associate's or 2-year college degree) - some high school	0.05	0.02	3.02	.073
(bachelor's or 4-year college degree) - business or trade school	0.00	0.01	-0.15	> .999
(bachelor's or 4-year college degree) - grade school or less	0.02	0.01	1.70	> .999
(bachelor's or 4-year college degree) - graduate or professional degree	0.00	0.02	-0.04	> .999
(bachelor's or 4-year college degree) - high school diploma	0.01	0.01	0.61	> .999
(bachelor's or 4-year college degree) - some college	0.00	0.02	-0.07	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	-0.05	0.02	-2.50	.338
(bachelor's or 4-year college degree) - some high school	0.05	0.01	3.72	.007
business or trade school - grade school or less	0.02	0.01	1.66	> .999
business or trade school - graduate or professional degree	0.00	0.02	0.09	> .999
business or trade school - high school diploma	0.01	0.01	0.68	> .999
business or trade school - some college	0.00	0.02	0.07	> .999

Table 78: Differences in fantcCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
business or trade school - some graduate school or obtained professional degree	-0.05	0.02	-2.26	.603
business or trade school - some high school	0.05	0.02	3.49	.016
grade school or less - graduate or professional degree	-0.02	0.02	-1.39	> .999
grade school or less - high school diploma	-0.01	0.01	-1.12	> .999
grade school or less - some college	-0.02	0.02	-1.52	> .999
grade school or less - some graduate school or obtained professional degree	-0.07	0.02	-3.57	.012
grade school or less - some high school	0.03	0.01	2.07	.855
graduate or professional degree - high school diploma	0.01	0.02	0.51	> .999
graduate or professional degree - some college	0.00	0.02	-0.02	> .999
graduate or professional degree - some graduate school or obtained professional degree	-0.05	0.02	-2.20	.665
graduate or professional degree - some high school	0.05	0.02	3.06	.066
high school diploma - some college	-0.01	0.02	-0.59	> .999
high school diploma - some graduate school or obtained professional degree	-0.06	0.02	-2.89	.109
high school diploma - some high school	0.04	0.01	3.18	.046
some college - some graduate school or obtained professional degree	-0.05	0.02	-2.27	.603
some college - some high school	0.05	0.02	3.30	.030
some graduate school or obtained professional degree - some high school	0.10	0.02	4.91	< .001

Table 79: Differences in fantcCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.05	0.02	-2.95	.104
(associate's or 2-year college degree) - business or trade school	-0.05	0.02	-2.52	.366
(associate's or 2-year college degree) - grade school or less	0.00	0.02	0.03	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.04	0.02	-2.02	> .999
(associate's or 2-year college degree) - high school diploma	-0.01	0.02	-0.77	> .999
(associate's or 2-year college degree) - some college	-0.03	0.02	-1.25	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.03	0.02	-1.45	> .999

Table 79: Differences in fantcCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - some high school	-0.03	0.02	-1.40	> .999
(bachelor's or 4-year college degree) - business or trade school	0.00	0.01	0.31	> .999
(bachelor's or 4-year college degree) - grade school or less	0.05	0.01	3.88	.004
(bachelor's or 4-year college degree) - graduate or professional degree	0.01	0.01	1.04	> .999
(bachelor's or 4-year college degree) - high school diploma	0.04	0.01	3.05	.078
(bachelor's or 4-year college degree) - some college	0.03	0.01	1.99	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.02	0.02	1.26	> .999
(bachelor's or 4-year college degree) - some high school	0.03	0.01	1.83	> .999
business or trade school - grade school or less	0.05	0.02	3.16	.055
business or trade school - graduate or professional degree	0.01	0.02	0.64	> .999
business or trade school - high school diploma	0.04	0.01	2.35	.563
business or trade school - some college	0.02	0.02	1.51	> .999
business or trade school - some graduate school or obtained professional degree	0.02	0.02	0.93	> .999
business or trade school - some high school	0.02	0.02	1.35	> .999
grade school or less - graduate or professional degree	-0.04	0.02	-2.55	.343
grade school or less - high school diploma	-0.02	0.02	-1.02	> .999
grade school or less - some college	-0.03	0.02	-1.57	> .999
grade school or less - some graduate school or obtained professional degree	-0.03	0.02	-1.74	> .999
grade school or less - some high school	-0.03	0.02	-1.77	> .999
graduate or professional degree - high school diploma	0.03	0.01	1.69	> .999
graduate or professional degree - some college	0.01	0.02	0.90	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.01	0.02	0.40	> .999
graduate or professional degree - some high school	0.01	0.02	0.73	> .999
high school diploma - some college	-0.01	0.02	-0.68	> .999
high school diploma - some graduate school or obtained professional degree	-0.02	0.02	-0.97	> .999
high school diploma - some high school	-0.01	0.02	-0.88	> .999
some college - some graduate school or obtained professional degree	-0.01	0.02	-0.37	> .999
some college - some high school	0.00	0.02	-0.17	> .999

Table 79: Differences in fantcCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
some graduate school or obtained professional degree - some high school	0.00	0.02	0.22	> .999

Table 80: Differences in fantcCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.01	0.01	1.09	> .999
(18-25) - (36-45)	0.04	0.03	1.48	.831
(18-25) - (46+)	0.00	0.03	0.16	> .999
(26-35) - (36-45)	0.03	0.03	0.91	> .999
(26-35) - (46+)	-0.01	0.03	-0.32	> .999
(36-45) - (46+)	-0.04	0.04	-0.96	> .999

Table 81: Differences in mfCNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	-0.01	0.01	-1.47	.425
large city - small town or village	-0.04	0.01	-3.76	.001
large city - rural area	0.00	0.01	-0.31	.918
(medium-sized city) - small town or village	-0.02	0.01	-2.39	.068
(medium-sized city) - rural area	0.01	0.01	0.74	.918
small town or village - rural area	0.03	0.01	2.51	.061

Table 82: Differences in mfCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	0.03	0.02	1.49	> .999
(associate's or 2-year college degree) - business or trade school	0.00	0.02	-0.06	> .999
(associate's or 2-year college degree) - grade school or less	0.11	0.02	6.38	< .001
(associate's or 2-year college degree) - graduate or professional degree	0.01	0.02	0.70	> .999
(associate's or 2-year college degree) - high school diploma	0.02	0.02	1.11	> .999
(associate's or 2-year college degree) - some college	0.02	0.02	1.10	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	0.01	0.02	0.62	> .999
(associate's or 2-year college degree) - some high school	0.06	0.02	3.26	.031

Table 82: Differences in mfCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - business or trade school	-0.03	0.01	-1.81	> .999
(bachelor's or 4-year college degree) - grade school or less	0.08	0.01	6.38	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	-0.01	0.02	-0.70	> .999
(bachelor's or 4-year college degree) - high school diploma	-0.01	0.01	-0.50	> .999
(bachelor's or 4-year college degree) - some college	0.00	0.01	-0.31	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	-0.01	0.02	-0.57	> .999
(bachelor's or 4-year college degree) - some high school	0.03	0.01	2.34	.464
business or trade school - grade school or less	0.11	0.01	7.46	< .001
business or trade school - graduate or professional degree	0.01	0.02	0.84	> .999
business or trade school - high school diploma	0.02	0.01	1.37	> .999
business or trade school - some college	0.02	0.02	1.31	> .999
business or trade school - some graduate school or obtained professional degree	0.01	0.02	0.72	> .999
business or trade school - some high school	0.06	0.02	3.79	.004
grade school or less - graduate or professional degree	-0.10	0.02	-5.77	< .001
grade school or less - high school diploma	-0.09	0.01	-6.89	< .001
grade school or less - some college	-0.09	0.02	-5.78	< .001
grade school or less - some graduate school or obtained professional degree	-0.10	0.02	-4.78	< .001
grade school or less - some high school	-0.05	0.01	-3.54	.011
graduate or professional degree - high school diploma	0.00	0.02	0.31	> .999
graduate or professional degree - some college	0.01	0.02	0.38	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.00	0.02	0.01	> .999
graduate or professional degree - some high school	0.04	0.02	2.57	.256
high school diploma - some college	0.00	0.01	0.12	> .999
high school diploma - some graduate school or obtained professional degree	0.00	0.02	-0.24	> .999
high school diploma - some high school	0.04	0.01	2.80	.132
some college - some graduate school or obtained professional degree	-0.01	0.02	-0.31	> .999
some college - some high school	0.04	0.02	2.33	.464
some graduate school or obtained professional degree - some high school	0.04	0.02	2.15	.701

Table 83: Differences in mfCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.02	0.02	-1.31	> .999
(associate's or 2-year college degree) - business or trade school	-0.04	0.02	-2.05	.795
(associate's or 2-year college degree) - grade school or less	0.10	0.02	4.83	< .001
(associate's or 2-year college degree) - graduate or professional degree	-0.02	0.02	-1.14	> .999
(associate's or 2-year college degree) - high school diploma	0.02	0.02	1.04	> .999
(associate's or 2-year college degree) - some college	0.01	0.02	0.53	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	0.01	0.02	0.45	> .999
(associate's or 2-year college degree) - some high school	0.01	0.02	0.50	> .999
(bachelor's or 4-year college degree) - business or trade school	-0.02	0.01	-1.19	> .999
(bachelor's or 4-year college degree) - grade school or less	0.12	0.01	8.54	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.00	0.01	0.11	> .999
(bachelor's or 4-year college degree) - high school diploma	0.04	0.01	3.41	.017
(bachelor's or 4-year college degree) - some college	0.03	0.01	2.40	.357
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.03	0.02	1.98	.808
(bachelor's or 4-year college degree) - some high school	0.03	0.01	2.40	.357
business or trade school - grade school or less	0.14	0.02	8.57	< .001
business or trade school - graduate or professional degree	0.02	0.02	1.15	> .999
business or trade school - high school diploma	0.06	0.01	4.06	.001
business or trade school - some college	0.05	0.02	3.15	.043
business or trade school - some graduate school or obtained professional degree	0.05	0.02	2.70	.160
business or trade school - some high school	0.05	0.02	3.15	.043
grade school or less - graduate or professional degree	-0.12	0.02	-7.50	< .001
grade school or less - high school diploma	-0.08	0.02	-5.05	< .001
grade school or less - some college	-0.09	0.02	-5.21	< .001
grade school or less - some graduate school or obtained professional degree	-0.09	0.02	-4.58	< .001
grade school or less - some high school	-0.09	0.02	-5.33	< .001

Table 83: Differences in mfcNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
graduate or professional degree - high school diploma	0.04	0.01	2.87	.097
graduate or professional degree - some college	0.03	0.02	2.06	.795
graduate or professional degree - some graduate school or obtained professional degree	0.03	0.02	1.75	> .999
graduate or professional degree - some high school	0.03	0.02	2.04	.795
high school diploma - some college	-0.01	0.02	-0.60	> .999
high school diploma - some graduate school or obtained professional degree	-0.01	0.02	-0.56	> .999
high school diploma - some high school	-0.01	0.02	-0.66	> .999
some college - some graduate school or obtained professional degree	0.00	0.02	-0.04	> .999
some college - some high school	0.00	0.02	-0.04	> .999
some graduate school or obtained professional degree - some high school	0.00	0.02	0.00	> .999

Table 84: Differences in mfcNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.03	0.01	2.09	.117
(18-25) - (36-45)	0.11	0.03	3.73	.001
(18-25) - (46+)	0.06	0.03	2.18	.117
(26-35) - (36-45)	0.08	0.03	2.56	.053
(26-35) - (46+)	0.03	0.03	1.09	.473
(36-45) - (46+)	-0.05	0.04	-1.18	.473

Table 85: Differences in socAxCNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	-0.01	0.01	-1.15	.501
large city - small town or village	-0.04	0.01	-4.96	< .001
large city - rural area	-0.04	0.01	-4.03	< .001
(medium-sized city) - small town or village	-0.03	0.01	-3.85	< .001
(medium-sized city) - rural area	-0.03	0.01	-3.17	.005
small town or village - rural area	0.00	0.01	-0.13	.899

Table 86: Differences in socAxCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.03	0.01	-2.21	.629

Table 86: Differences in socAxCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - business or trade school	-0.05	0.02	-3.41	.019
(associate's or 2-year college degree) - grade school or less	0.03	0.01	1.77	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.04	0.02	-2.40	.405
(associate's or 2-year college degree) - high school diploma	-0.04	0.01	-2.61	.235
(associate's or 2-year college degree) - some college	-0.03	0.02	-2.13	.732
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.06	0.02	-3.02	.070
(associate's or 2-year college degree) - some high school	-0.02	0.02	-1.04	> .999
(bachelor's or 4-year college degree) - business or trade school	-0.02	0.01	-1.71	> .999
(bachelor's or 4-year college degree) - grade school or less	0.06	0.01	5.10	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	-0.01	0.01	-0.62	> .999
(bachelor's or 4-year college degree) - high school diploma	-0.01	0.01	-0.53	> .999
(bachelor's or 4-year college degree) - some college	0.00	0.01	-0.17	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	-0.03	0.02	-1.58	> .999
(bachelor's or 4-year college degree) - some high school	0.02	0.01	1.31	> .999
business or trade school - grade school or less	0.08	0.01	6.21	< .001
business or trade school - graduate or professional degree	0.01	0.02	0.83	> .999
business or trade school - high school diploma	0.02	0.01	1.24	> .999
business or trade school - some college	0.02	0.01	1.34	> .999
business or trade school - some graduate school or obtained professional degree	-0.01	0.02	-0.31	> .999
business or trade school - some high school	0.04	0.01	2.76	.157
grade school or less - graduate or professional degree	-0.07	0.01	-4.66	< .001
grade school or less - high school diploma	-0.06	0.01	-5.62	< .001
grade school or less - some college	-0.06	0.01	-4.53	< .001
grade school or less - some graduate school or obtained professional degree	-0.08	0.02	-4.92	< .001
grade school or less - some high school	-0.04	0.01	-3.37	.022
graduate or professional degree - high school diploma	0.00	0.01	0.20	> .999
graduate or professional degree - some college	0.01	0.02	0.41	> .999

Table 86: Differences in socAxCNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
graduate or professional degree - some graduate school or obtained professional degree	-0.02	0.02	-0.96	> .999
graduate or professional degree - some high school	0.02	0.01	1.64	> .999
high school diploma - some college	0.00	0.01	0.28	> .999
high school diploma - some graduate school or obtained professional degree	-0.02	0.02	-1.24	> .999
high school diploma - some high school	0.02	0.01	1.79	> .999
some college - some graduate school or obtained professional degree	-0.02	0.02	-1.34	> .999
some college - some high school	0.02	0.01	1.30	> .999
some graduate school or obtained professional degree - some high school	0.04	0.02	2.40	.405

Table 87: Differences in socAxCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.06	0.02	-3.97	.002
(associate's or 2-year college degree) - business or trade school	-0.06	0.02	-3.43	.019
(associate's or 2-year college degree) - grade school or less	0.01	0.02	0.43	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.06	0.02	-3.35	.023
(associate's or 2-year college degree) - high school diploma	-0.03	0.02	-1.82	> .999
(associate's or 2-year college degree) - some college	-0.04	0.02	-2.26	.545
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.05	0.02	-2.52	.290
(associate's or 2-year college degree) - some high school	-0.04	0.02	-2.51	.292
(bachelor's or 4-year college degree) - business or trade school	0.00	0.01	0.35	> .999
(bachelor's or 4-year college degree) - grade school or less	0.07	0.01	5.75	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.01	0.01	0.48	> .999
(bachelor's or 4-year college degree) - high school diploma	0.03	0.01	2.93	.092
(bachelor's or 4-year college degree) - some college	0.02	0.01	1.87	> .999

Table 87: Differences in socAxCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.01	0.01	0.97	> .999
(bachelor's or 4-year college degree) - some high school	0.02	0.01	1.57	> .999
business or trade school - grade school or less	0.07	0.01	4.77	< .001
business or trade school - graduate or professional degree	0.00	0.01	0.12	> .999
business or trade school - high school diploma	0.03	0.01	2.21	.601
business or trade school - some college	0.02	0.01	1.36	> .999
business or trade school - some graduate school or obtained professional degree	0.01	0.02	0.63	> .999
business or trade school - some high school	0.02	0.01	1.09	> .999
grade school or less - graduate or professional degree	-0.06	0.01	-4.69	< .001
grade school or less - high school diploma	-0.04	0.01	-2.86	.109
grade school or less - some college	-0.05	0.01	-3.29	.028
grade school or less - some graduate school or obtained professional degree	-0.06	0.02	-3.42	.019
grade school or less - some high school	-0.05	0.01	-3.61	.010
graduate or professional degree - high school diploma	0.03	0.01	2.10	.749
graduate or professional degree - some college	0.02	0.01	1.26	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.01	0.02	0.53	> .999
graduate or professional degree - some high school	0.01	0.01	0.99	> .999
high school diploma - some college	-0.01	0.01	-0.70	> .999
high school diploma - some graduate school or obtained professional degree	-0.02	0.02	-1.18	> .999
high school diploma - some high school	-0.01	0.01	-1.01	> .999
some college - some graduate school or obtained professional degree	-0.01	0.02	-0.54	> .999
some college - some high school	0.00	0.01	-0.28	> .999
some graduate school or obtained professional degree - some high school	0.00	0.02	0.31	> .999

Table 88: Differences in socAxCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.06	0.01	4.91	< .001
(18-25) - (36-45)	0.07	0.03	2.67	.030
(18-25) - (46+)	0.13	0.03	5.17	< .001
(26-35) - (36-45)	0.01	0.03	0.41	.679
(26-35) - (46+)	0.07	0.03	2.65	.030

Table 88: Differences in socAxCNI by Age Group. (continued)

Contrast	Est	SE	Z	p
(36-45) - (46+)	0.06	0.04	1.70	.179

Table 89: Differences in pty6CNI by Family Home.

Contrast	Est	SE	Z	p
large city - (medium-sized city)	0.00	0.01	-0.13	> .999
large city - small town or village	-0.02	0.01	-2.22	.117
large city - rural area	-0.02	0.01	-2.38	.105
(medium-sized city) - small town or village	-0.02	0.01	-2.07	.117
(medium-sized city) - rural area	-0.02	0.01	-2.27	.117
small town or village - rural area	-0.01	0.01	-0.60	> .999

Table 90: Differences in pty6CNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.03	0.01	-2.01	> .999
(associate's or 2-year college degree) - business or trade school	-0.02	0.01	-1.62	> .999
(associate's or 2-year college degree) - grade school or less	0.01	0.01	0.95	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.02	0.02	-1.03	> .999
(associate's or 2-year college degree) - high school diploma	0.00	0.01	-0.21	> .999
(associate's or 2-year college degree) - some college	-0.03	0.01	-1.77	> .999
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.03	0.02	-1.50	> .999
(associate's or 2-year college degree) - some high school	0.00	0.01	-0.18	> .999
(bachelor's or 4-year college degree) - business or trade school	0.00	0.01	0.31	> .999
(bachelor's or 4-year college degree) - grade school or less	0.04	0.01	3.78	.006
(bachelor's or 4-year college degree) - graduate or professional degree	0.01	0.01	0.84	> .999
(bachelor's or 4-year college degree) - high school diploma	0.02	0.01	2.38	.560
(bachelor's or 4-year college degree) - some college	0.00	0.01	0.07	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.00	0.02	-0.01	> .999

Table 90: Differences in pty6CNI by Mother Edu. (continued)

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - some high school	0.02	0.01	2.17	.897
business or trade school - grade school or less	0.04	0.01	3.07	.073
business or trade school - graduate or professional degree	0.01	0.01	0.52	> .999
business or trade school - high school diploma	0.02	0.01	1.79	> .999
business or trade school - some college	0.00	0.01	-0.21	> .999
business or trade school - some graduate school or obtained professional degree	0.00	0.02	-0.22	> .999
business or trade school - some high school	0.02	0.01	1.67	> .999
grade school or less - graduate or professional degree	-0.03	0.01	-2.19	.878
grade school or less - high school diploma	-0.02	0.01	-1.49	> .999
grade school or less - some college	-0.04	0.01	-3.19	.051
grade school or less - some graduate school or obtained professional degree	-0.04	0.02	-2.49	.420
grade school or less - some high school	-0.02	0.01	-1.35	> .999
graduate or professional degree - high school diploma	0.01	0.01	1.03	> .999
graduate or professional degree - some college	-0.01	0.01	-0.69	> .999
graduate or professional degree - some graduate school or obtained professional degree	-0.01	0.02	-0.62	> .999
graduate or professional degree - some high school	0.01	0.01	0.98	> .999
high school diploma - some college	-0.02	0.01	-1.95	> .999
high school diploma - some graduate school or obtained professional degree	-0.02	0.02	-1.54	> .999
high school diploma - some high school	0.00	0.01	0.02	> .999
some college - some graduate school or obtained professional degree	0.00	0.02	-0.06	> .999
some college - some high school	0.02	0.01	1.83	> .999
some graduate school or obtained professional degree - some high school	0.02	0.02	1.48	> .999

Table 91: Differences in pty6CNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.04	0.01	-2.86	.125
(associate's or 2-year college degree) - business or trade school	-0.04	0.02	-2.61	.245
(associate's or 2-year college degree) - grade school or less	0.01	0.02	0.61	> .999
(associate's or 2-year college degree) - graduate or professional degree	-0.03	0.02	-1.91	> .999

Table 91: Differences in pty6CNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - high school diploma	-0.01	0.02	-0.46	> .999
(associate's or 2-year college degree) - some college	-0.03	0.02	-2.14	.754
(associate's or 2-year college degree) - some graduate school or obtained professional degree	-0.03	0.02	-1.82	> .999
(associate's or 2-year college degree) - some high school	-0.03	0.02	-2.15	.754
(bachelor's or 4-year college degree) - business or trade school	0.00	0.01	0.05	> .999
(bachelor's or 4-year college degree) - grade school or less	0.05	0.01	4.59	< .001
(bachelor's or 4-year college degree) - graduate or professional degree	0.01	0.01	1.07	> .999
(bachelor's or 4-year college degree) - high school diploma	0.04	0.01	3.40	.022
(bachelor's or 4-year college degree) - some college	0.01	0.01	0.63	> .999
(bachelor's or 4-year college degree) - some graduate school or obtained professional degree	0.01	0.01	0.68	> .999
(bachelor's or 4-year college degree) - some high school	0.01	0.01	0.65	> .999
business or trade school - grade school or less	0.05	0.01	4.01	.002
business or trade school - graduate or professional degree	0.01	0.01	0.90	> .999
business or trade school - high school diploma	0.03	0.01	2.89	.115
business or trade school - some college	0.01	0.01	0.51	> .999
business or trade school - some graduate school or obtained professional degree	0.01	0.02	0.59	> .999
business or trade school - some high school	0.01	0.01	0.53	> .999
grade school or less - graduate or professional degree	-0.04	0.01	-3.15	.051
grade school or less - high school diploma	-0.02	0.01	-1.38	> .999
grade school or less - some college	-0.04	0.01	-3.38	.024
grade school or less - some graduate school or obtained professional degree	-0.04	0.02	-2.78	.152
grade school or less - some high school	-0.04	0.01	-3.41	.022
graduate or professional degree - high school diploma	0.02	0.01	1.96	> .999
graduate or professional degree - some college	0.00	0.01	-0.35	> .999
graduate or professional degree - some graduate school or obtained professional degree	0.00	0.02	-0.16	> .999
graduate or professional degree - some high school	0.00	0.01	-0.34	> .999
high school diploma - some college	-0.03	0.01	-2.24	.620

Table 91: Differences in pty6CNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
high school diploma - some graduate school or obtained professional degree	-0.03	0.01	-1.76	> .999
high school diploma - some high school	-0.03	0.01	-2.27	.609
some college - some graduate school or obtained professional degree	0.00	0.02	0.14	> .999
some college - some high school	0.00	0.01	0.01	> .999
some graduate school or obtained professional degree - some high school	0.00	0.02	-0.13	> .999

Table 92: Differences in pty6CNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.03	0.01	2.48	.052
(18-25) - (36-45)	0.08	0.02	3.23	.006
(18-25) - (46+)	0.08	0.02	3.45	.003
(26-35) - (36-45)	0.05	0.03	1.95	.103
(26-35) - (46+)	0.05	0.03	2.11	.103
(36-45) - (46+)	0.00	0.03	0.08	.934

5.2 Tables - Contrasts($p < .05$)

Table 93: Significant differences in Mindset CNI by Family Home.

Contrast	Est	SE	Z	p
large city - small town or village	-0.02	0.01	-3.63	.002
(medium-sized city) - small town or village	-0.02	0.01	-2.85	.022

Table 94: Significant differences in Mindset CNI by Mother Edu.

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - grade school or less	0.03	0.01	3.59	.011
business or trade school - grade school or less	0.04	0.01	3.99	.002
grade school or less - some college	-0.03	0.01	-3.41	.022
grade school or less - some graduate school or obtained professional degree	-0.04	0.01	-3.60	.011

Table 95: Significant differences in Mindset CNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.04	0.01	-3.30	.029

Table 95: Significant differences in Mindset CNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - business or trade school	-0.04	0.01	-3.49	.015
(bachelor's or 4-year college degree) - grade school or less	0.04	0.01	4.75	< .001
(bachelor's or 4-year college degree) - high school diploma	0.03	0.01	3.95	.003
business or trade school - grade school or less	0.05	0.01	4.73	< .001
business or trade school - high school diploma	0.04	0.01	3.98	.002
grade school or less - graduate or professional degree	-0.04	0.01	-3.79	.005
grade school or less - some college	-0.03	0.01	-3.30	.029

Table 96: Significant differences in Mindset CNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.03	0.01	3.50	.003
(18-25) - (36-45)	0.06	0.02	3.40	.003
(18-25) - (46+)	0.05	0.02	2.98	.012

Table 97: Significant differences in ismCNI by Family Home.

Contrast	Est	SE	Z	p
large city - small town or village	-0.03	0.01	-3.28	.006
(medium-sized city) - small town or village	-0.03	0.01	-3.05	.012

Table 98: Significant differences in ismCNI by Father Edu.

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - grade school or less	0.05	0.01	3.87	.004
grade school or less - some high school	-0.04	0.01	-3.25	.040

Table 99: Significant differences in ismCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.04	0.01	3.44	.003

Table 100: Significant differences in globeCNI by Mother Edu.

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - grade school or less	0.06	0.01	5.13	< .001
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.21	.039
business or trade school - grade school or less	0.06	0.01	4.72	< .001
grade school or less - graduate or professional degree	-0.05	0.01	-3.61	.009
grade school or less - high school diploma	-0.04	0.01	-3.74	.006
grade school or less - some college	-0.05	0.01	-3.63	.009
grade school or less - some graduate school or obtained professional degree	-0.08	0.02	-4.55	< .001
some graduate school or obtained professional degree - some high school	0.06	0.02	3.32	.027

Table 101: Significant differences in globeCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.06	0.02	-4.09	.001
(associate's or 2-year college degree) - business or trade school	-0.05	0.02	-3.15	.041
(associate's or 2-year college degree) - graduate or professional degree	-0.05	0.02	-3.31	.026
(bachelor's or 4-year college degree) - grade school or less	0.08	0.01	7.20	< .001
(bachelor's or 4-year college degree) - high school diploma	0.05	0.01	4.42	< .001
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.30	.026
business or trade school - grade school or less	0.07	0.01	5.56	< .001
grade school or less - graduate or professional degree	-0.08	0.01	-5.78	< .001
grade school or less - some college	-0.06	0.01	-4.03	.002
grade school or less - some graduate school or obtained professional degree	-0.07	0.02	-4.42	< .001
grade school or less - some high school	-0.05	0.01	-3.35	.023
graduate or professional degree - high school diploma	0.04	0.01	3.19	.037

Table 102: Significant differences in globeCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.05	0.01	4.15	< .001
(18-25) - (36-45)	0.10	0.03	4.15	< .001
(18-25) - (46+)	0.10	0.02	4.34	< .001

Table 103: Significant differences in globeExCNI by Family Home.

Contrast	Est	SE	Z	p
large city - small town or village	-0.02	0.01	-2.73	.038

Table 104: Significant differences in globeExCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - grade school or less	0.06	0.01	4.27	< .001
(bachelor's or 4-year college degree) - grade school or less	0.07	0.01	5.93	< .001
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.27	.029
business or trade school - grade school or less	0.08	0.01	6.25	< .001
business or trade school - some high school	0.05	0.01	3.86	.003
grade school or less - graduate or professional degree	-0.07	0.01	-4.74	< .001
grade school or less - high school diploma	-0.06	0.01	-5.36	< .001
grade school or less - some college	-0.06	0.01	-4.87	< .001
grade school or less - some graduate school or obtained professional degree	-0.09	0.02	-5.21	< .001
some graduate school or obtained professional degree - some high school	0.06	0.02	3.50	.013

Table 105: Significant differences in globeExCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.05	0.02	-3.41	.017
(associate's or 2-year college degree) - business or trade school	-0.06	0.02	-3.46	.015
(bachelor's or 4-year college degree) - grade school or less	0.09	0.01	7.68	< .001
(bachelor's or 4-year college degree) - high school diploma	0.04	0.01	4.10	.001
(bachelor's or 4-year college degree) - some high school	0.04	0.01	3.29	.025
business or trade school - grade school or less	0.10	0.01	7.15	< .001
business or trade school - high school diploma	0.05	0.01	3.94	.002
business or trade school - some high school	0.04	0.01	3.28	.025
grade school or less - graduate or professional degree	-0.09	0.01	-6.45	< .001
grade school or less - high school diploma	-0.05	0.01	-3.66	.007
grade school or less - some college	-0.06	0.01	-4.44	< .001
grade school or less - some graduate school or obtained professional degree	-0.08	0.02	-4.89	< .001
grade school or less - some high school	-0.05	0.01	-3.77	.005

Table 105: Significant differences in globeExCNI by Father Edu. (continued)

Contrast	Est	SE	Z	p
graduate or professional degree - high school diploma	0.04	0.01	3.17	.035

Table 106: Significant differences in globeExCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.04	0.01	3.89	< .001
(18-25) - (36-45)	0.10	0.03	4.10	< .001
(18-25) - (46+)	0.08	0.02	3.33	.004

Table 107: Significant differences in fantcCNI by Family Home.

Contrast	Est	SE	Z	p
large city - small town or village	-0.03	0.01	-3.01	.016

Table 108: Significant differences in fantcCNI by Mother Edu.

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - some high school	0.05	0.01	3.72	.007
business or trade school - some high school	0.05	0.02	3.49	.016
grade school or less - some graduate school or obtained professional degree	-0.07	0.02	-3.57	.012
high school diploma - some high school	0.04	0.01	3.18	.046
some college - some high school	0.05	0.02	3.30	.030
some graduate school or obtained professional degree - some high school	0.10	0.02	4.91	< .001

Table 109: Significant differences in fantcCNI by Father Edu.

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - grade school or less	0.05	0.01	3.88	.004

Table 110: Significant differences in mfCNI by Family Home.

Contrast	Est	SE	Z	p
large city - small town or village	-0.04	0.01	-3.76	.001

Table 111: Significant differences in mfCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - grade school or less	0.11	0.02	6.38	< .001
(associate's or 2-year college degree) - some high school	0.06	0.02	3.26	.031
(bachelor's or 4-year college degree) - grade school or less	0.08	0.01	6.38	< .001
business or trade school - grade school or less	0.11	0.01	7.46	< .001
business or trade school - some high school	0.06	0.02	3.79	.004
grade school or less - graduate or professional degree	-0.10	0.02	-5.77	< .001
grade school or less - high school diploma	-0.09	0.01	-6.89	< .001
grade school or less - some college	-0.09	0.02	-5.78	< .001
grade school or less - some graduate school or obtained professional degree	-0.10	0.02	-4.78	< .001
grade school or less - some high school	-0.05	0.01	-3.54	.011

Table 112: Significant differences in mfCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - grade school or less	0.10	0.02	4.83	< .001
(bachelor's or 4-year college degree) - grade school or less	0.12	0.01	8.54	< .001
(bachelor's or 4-year college degree) - high school diploma	0.04	0.01	3.41	.017
business or trade school - grade school or less	0.14	0.02	8.57	< .001
business or trade school - high school diploma	0.06	0.01	4.06	.001
business or trade school - some college	0.05	0.02	3.15	.043
business or trade school - some high school	0.05	0.02	3.15	.043
grade school or less - graduate or professional degree	-0.12	0.02	-7.50	< .001
grade school or less - high school diploma	-0.08	0.02	-5.05	< .001
grade school or less - some college	-0.09	0.02	-5.21	< .001
grade school or less - some graduate school or obtained professional degree	-0.09	0.02	-4.58	< .001
grade school or less - some high school	-0.09	0.02	-5.33	< .001

Table 113: Significant differences in mfCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (36-45)	0.11	0.03	3.73	.001

Table 114: Significant differences in socAxCNI by Family Home.

Contrast	Est	SE	Z	p
large city - small town or village	-0.04	0.01	-4.96	< .001
large city - rural area	-0.04	0.01	-4.03	< .001
(medium-sized city) - small town or village	-0.03	0.01	-3.85	< .001
(medium-sized city) - rural area	-0.03	0.01	-3.17	.005

Table 115: Significant differences in socAxCNI by Mother Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - business or trade school	-0.05	0.02	-3.41	.019
(bachelor's or 4-year college degree) - grade school or less	0.06	0.01	5.10	< .001
business or trade school - grade school or less	0.08	0.01	6.21	< .001
grade school or less - graduate or professional degree	-0.07	0.01	-4.66	< .001
grade school or less - high school diploma	-0.06	0.01	-5.62	< .001
grade school or less - some college	-0.06	0.01	-4.53	< .001
grade school or less - some graduate school or obtained professional degree	-0.08	0.02	-4.92	< .001
grade school or less - some high school	-0.04	0.01	-3.37	.022

Table 116: Significant differences in socAxCNI by Father Edu.

Contrast	Est	SE	Z	p
(associate's or 2-year college degree) - (bachelor's or 4-year college degree)	-0.06	0.02	-3.97	.002
(associate's or 2-year college degree) - business or trade school	-0.06	0.02	-3.43	.019
(associate's or 2-year college degree) - graduate or professional degree	-0.06	0.02	-3.35	.023
(bachelor's or 4-year college degree) - grade school or less	0.07	0.01	5.75	< .001
business or trade school - grade school or less	0.07	0.01	4.77	< .001
grade school or less - graduate or professional degree	-0.06	0.01	-4.69	< .001
grade school or less - some college	-0.05	0.01	-3.29	.028
grade school or less - some graduate school or obtained professional degree	-0.06	0.02	-3.42	.019
grade school or less - some high school	-0.05	0.01	-3.61	.010

Table 117: Significant differences in socAxCNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (26-35)	0.06	0.01	4.91	< .001

Table 117: Significant differences in socAxCNI by Age Group. (continued)

Contrast	Est	SE	Z	p
(18-25) - (36-45)	0.07	0.03	2.67	.030
(18-25) - (46+)	0.13	0.03	5.17	< .001
(26-35) - (46+)	0.07	0.03	2.65	.030

Table 118: Significant differences in pty6CNI by Mother Edu.

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - grade school or less	0.04	0.01	3.78	.006

Table 119: Significant differences in pty6CNI by Father Edu.

Contrast	Est	SE	Z	p
(bachelor's or 4-year college degree) - grade school or less	0.05	0.01	4.59	< .001
(bachelor's or 4-year college degree) - high school diploma	0.04	0.01	3.40	.022
business or trade school - grade school or less	0.05	0.01	4.01	.002
grade school or less - some college	-0.04	0.01	-3.38	.024
grade school or less - some high school	-0.04	0.01	-3.41	.022

Table 120: Significant differences in pty6CNI by Age Group.

Contrast	Est	SE	Z	p
(18-25) - (36-45)	0.08	0.02	3.23	.006
(18-25) - (46+)	0.08	0.02	3.45	.003

6 Discussion section

6.1 MFQ responding across countries

If global south countries emphasize moral virtues more, compelling more desirable responding in reference to them, (higher SSR) but also get more confused with survey methods and many unfamiliar questions and variables (low CNI), this could be explained perhaps. Discussion: In contrast SSR demonstrated a more complex pattern. At the country level, it often exhibited negative quadratic relationships with CNI, while at the individual level, the associations were positive but smaller in magnitude.

```
global_north <- c(
  "Canada", "England", "Germany", "Greece", "Japan",
  "Poland", "Spain", "USA", "Singapore", "Taiwan")

data2 %>%
  select(country, matches("^scM_MFQ.*\\.comm$")) %>%
  group_by(country) %>%
```

```

distinct(across(contains(".comm")), .keep_all = TRUE) %>%
ungroup() %>%
  rowwise() %>%
mutate(avg_score = mean(c_across(matches("^scM_MFQ.*\\.comm$"))),
       region = if_else(country %in% global_north, "Global North", "Global South")) %>%
arrange(desc(avg_score)) %>%
select(country, region, everything()) #>%
#print(n = Inf) %>% View()

```

6.2 Religiosity responding across countries

```

data2 %>%
select(country, scM_DRI_OrgRelgAc.comm, scM_DRI_NonOrgRelgAc.comm) %>%
group_by(country) %>%
distinct(across(contains(".comm")), .keep_all = TRUE) %>%
ungroup() %>%
  rowwise() %>%
mutate(avg_score = mean(c_across(matches("^scM_DRI.*\\.comm$"))),
       region = if_else(country %in% global_north, "Global North", "Global South")) %>%
arrange(desc(avg_score)) %>%
select(country, region, everything())

cni.ContMod_effects(pty6CNI_profiles$self.ctr_profiles, "scP_Consc.indv")

cni.ContMod_effects <- function(cni_profiles_data, modtr_pattern) {

  # Determine the level based on the modtr_pattern
  level <- if(grepl("indv", modtr_pattern)) "Individual" else if(grepl("comm", modtr_pattern)) "Country"

  #right data format
  cni.modtr_data <- data2 %>%
    #select moderator scales individual level (pID) scores
    #---$select moderators$ - specify regex
    select(pID, matches(modtr_pattern)) %>%
    #mean centering the moderator score cols
    #since this standardization is col-wise, running pty7 is not an issue
    mutate_if(is.numeric,
              ~. - mean(., na.rm = TRUE)) %>%
    pivot_longer(-pID,
                 names_to = "modtr", #moderator name
                 values_to = "modtr_score") %>% # moderator score
    full_join(cni_profiles_data, by = c("pID"), relationship = "many-to-many")

  #CNI <- moderator
  cni.modtr_models <- cni.modtr_data %>%
    tidyr::nest(data = -modtr) %>%
    mutate(
      #cni ~ mod
      mod.linear = map(data, ~lmer(z_response ~ z_ctr_response * modtr_score + (-1 + z_ctr_response
      #cni ~ mod + mod^2
      mod.quadratic = map(data, ~lmer(z_response ~ z_ctr_response * modtr_score + z_ctr_response *

```

```

    #save results
    tidy_mod.linear = map(mod.linear, tidy, conf.int = TRUE),
    tidy_mod.quadratic = map(mod.quadratic, tidy, conf.int = TRUE)
  )

results_linear <- cni.modtr_models %>%
  select(modtr, tidy_mod.linear) %>%
  unnest(cols = c(tidy_mod.linear)) %>%
  filter(term == "z_ctype_response:modtr_score") %>%
  select(modtr, term, estimate, conf.low, conf.high, p.value)

results_quadratic <- cni.modtr_models %>%
  select(modtr, tidy_mod.quadratic) %>%
  unnest(cols = c(tidy_mod.quadratic)) %>%
  filter(term == "z_ctype_response:I(modtr_score^2)") %>%
  select(modtr, term, estimate, conf.low, conf.high, p.value)

output <- bind_rows(
  !!level := results_linear,
  !!level := results_quadratic,
  .id = "level"
)

return(output)
}

```