

Whifree

Adaptive sports bra crafted by Wan Man

Hi Everyone.



WHY ADAPTIVE SPORTS BRA?



I met On Ying when I was 11.

Soon I realise that
she is not the only one.

There are ~26M female with
hand limitation in the US (2016).

“What can I do for them?”

I believe freedom empowers.

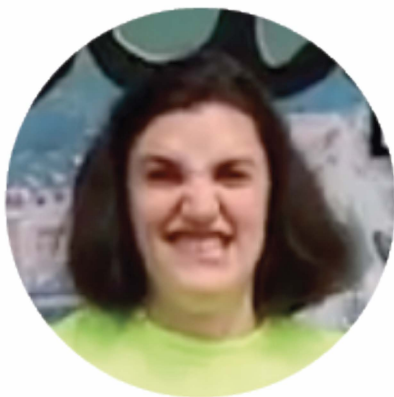
I hope I can use my knowledge
to motivate others.

The idea of adaptive sports bra
comes into my mind.

RESEARCH &
INSIGHTS



Susan Cushman -
UCP Portland
Family Support
Director & Parent



Marie



**Market
Research**



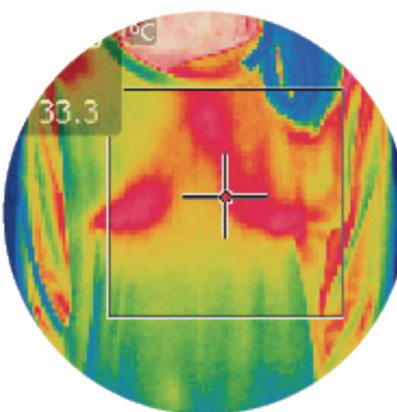
**Disguise
experiment**



Ann Yoshida -
Paralympic Champion
Physical Therpiast



Nathalie



**Literature Study
Recalling memory**



**Cindy Miguel &
Her Team -**
Special Olympic Coach
& Athletes

CURRENT
ISSUE

“Are current bra openings easy to put on & off?”



Pull over

- ✓ Adjustment
- ✓ Rooms to put on
- Most common



H&E at back

- ✓ Reaching back
- ✓ Accuracy



Front zipper

- ✓ Locking zipper head
- ✓ Wavy on body



Strappy

- ✓ Hook front H&E
- ✓ Too strappy



Velcro

- ✓ Strong enough for sports bra?



Snap button

- ✓ Accuracy
- ✓ Wavy & holes on body



Snap & Velcro Band

- ✓ Middle Snap Accuracy
- One side only



Front big H&E with straps

- ✓ Hook front H&E

We want something...

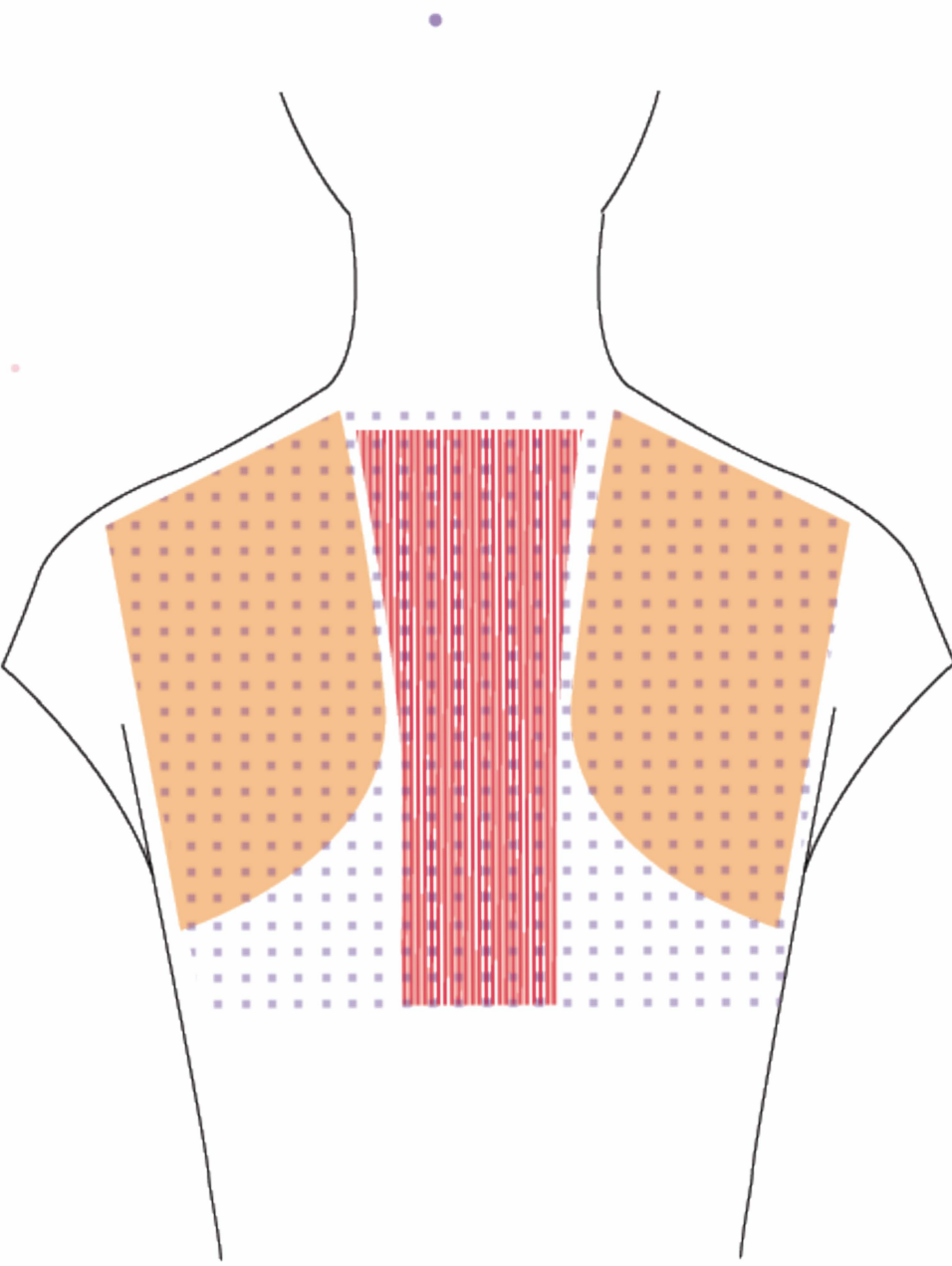
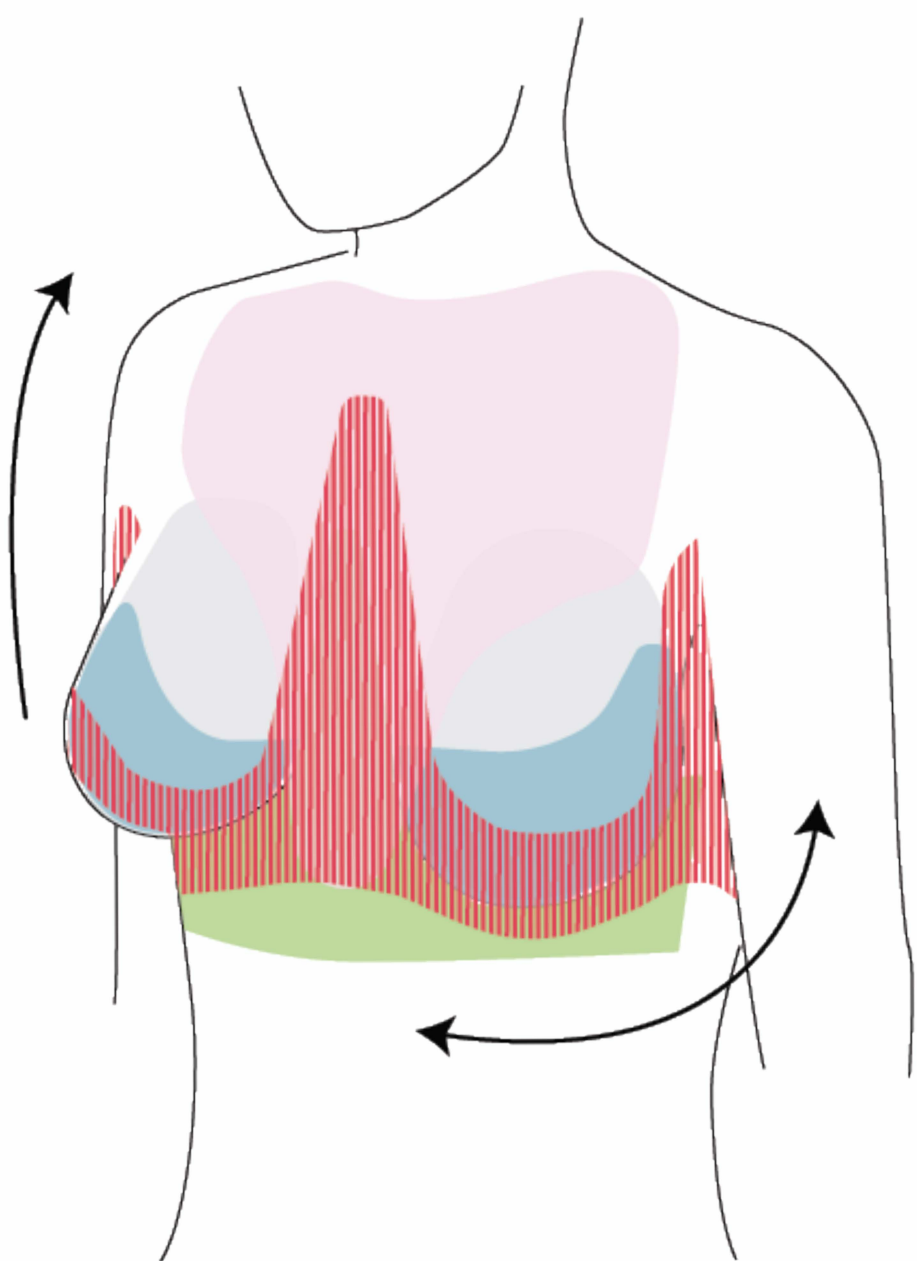
1. Easy on/off
2. Easy to adjust
3. Good moisture management properties
4. Natural material feels
5. Not medical style

Which can help...

Remove the barrier to the sport
Being healthy and active



FUNCTION MAP



- Key
- Major heat zone
 - Support needed
 - Stabilization
 - Easy to reach
 - Sensitive
 - Posture Control
 - Movement
 - Direction of Stretch

How can we provide adaptive athletes with decreased hand dexterity a sports bra for their active life and help them perform better?

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Adaptive Sports Bra
SS2021



Easy on & off medium to high-impact sports bra with adjustable support, excellent fit, comfort & aesthetic look.



Women with decreased hand dexterity



Indoor & outdoor



Sizes: XXS-XXXL



\$42 (FOB: \$13)

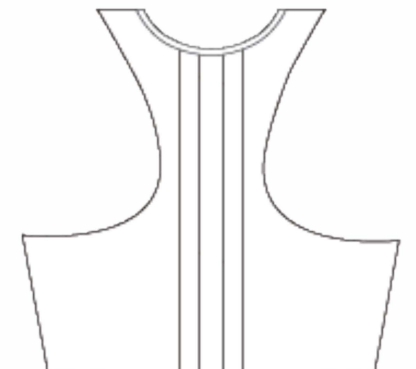
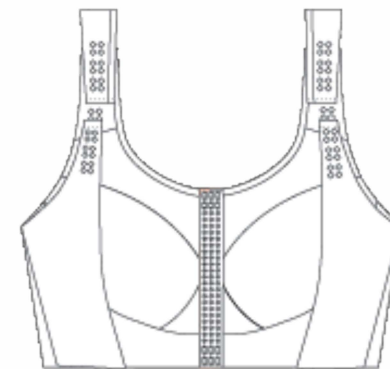
Design Process

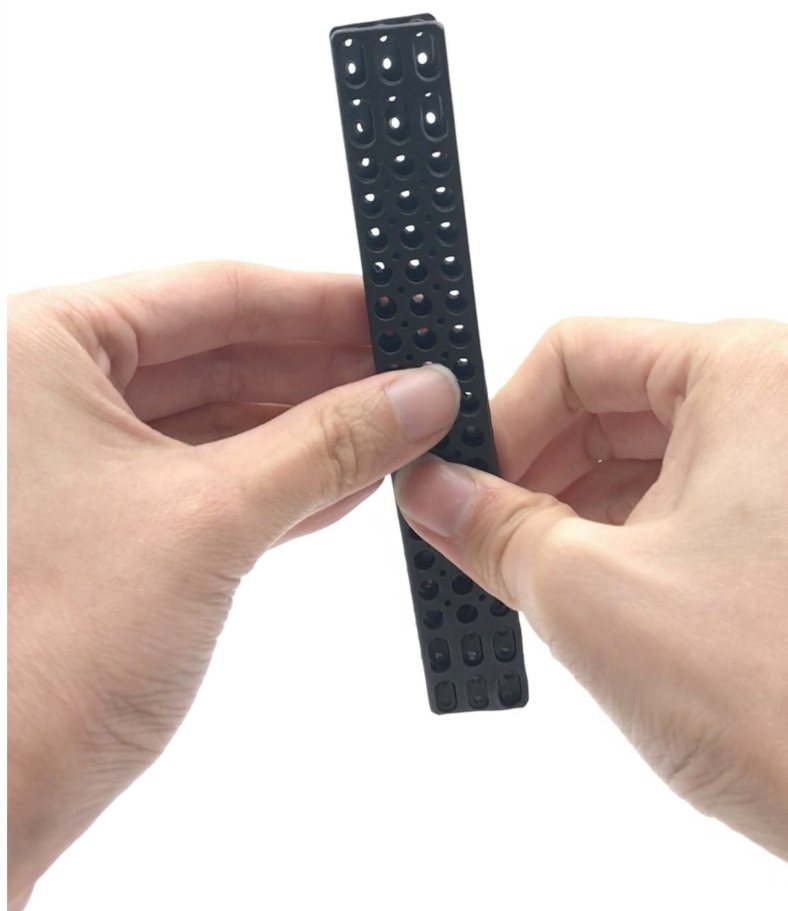
Design process sketches on University of Oregon Portland paper:

- Sketch 1:** Shows a garment with a "position of Elastic band" indicated.
- Sketch 2:** Shows a garment with a "Big elastic pull? horizontally." and "DD002 Idea".
- Sketch 3:** Shows a garment with a "Drawstring Center pull?" and "DD002 Idea".
- Sketch 4:** Shows a garment with "Shape fabric pull" and "DD002 Idea".
- Sketch 5:** Shows a garment with "Strong fabric 1/2 ply instead of heavy elastic" and "Not working at all".
- Sketch 6:** Shows a garment with "Gathering/smoothing with pulling string" and "extend piece for sticking/loop".
- Sketch 7:** Shows a garment with "convex & concave mix - for displacement prevention".
- Sketch 8:** Shows a garment with "Front on Armhole", "Front Closure Elastic", and "Front on/off Front closure put on method".
- Sketch 9:** Shows a garment with "7.3.2019 Prototype 'backless' Front put on Front closure", "Straight back", "closure", "the band is attached here", and "Problem: need to secure the side - work on pattern. Asymmetric underband".



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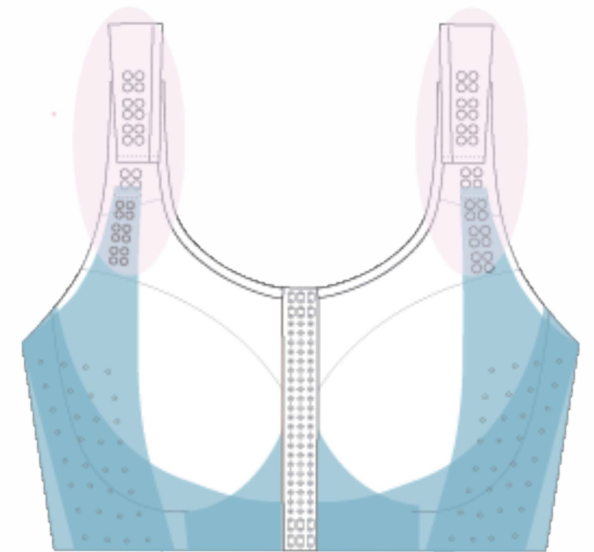
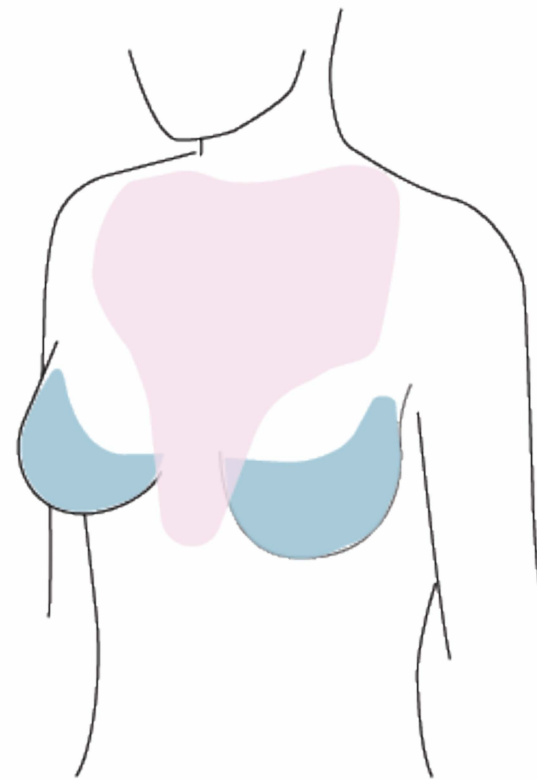


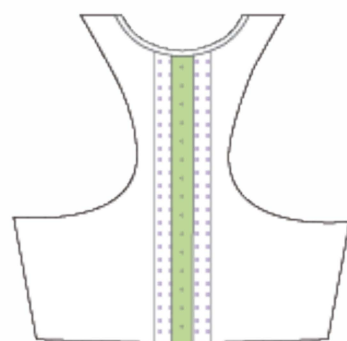
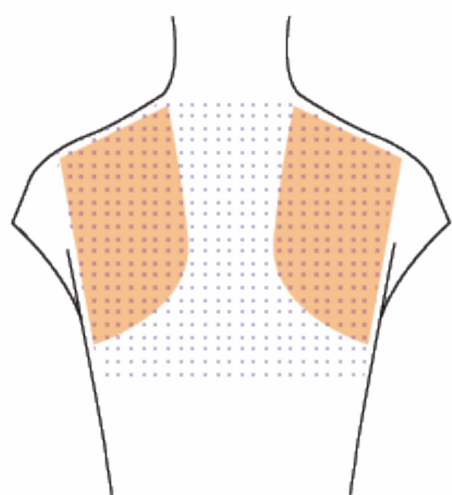
Feature 1-
Self-Gripped Opening



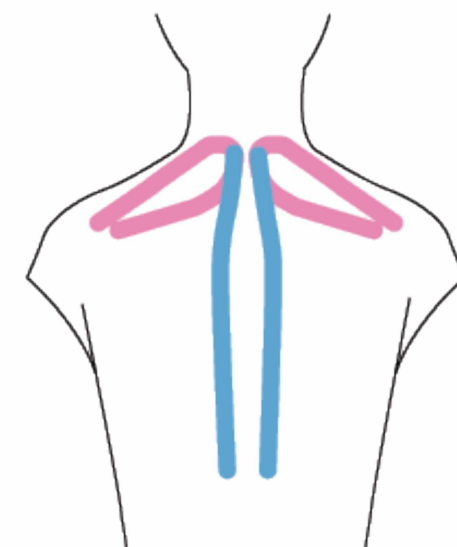


Feature 2-
Adjustable support

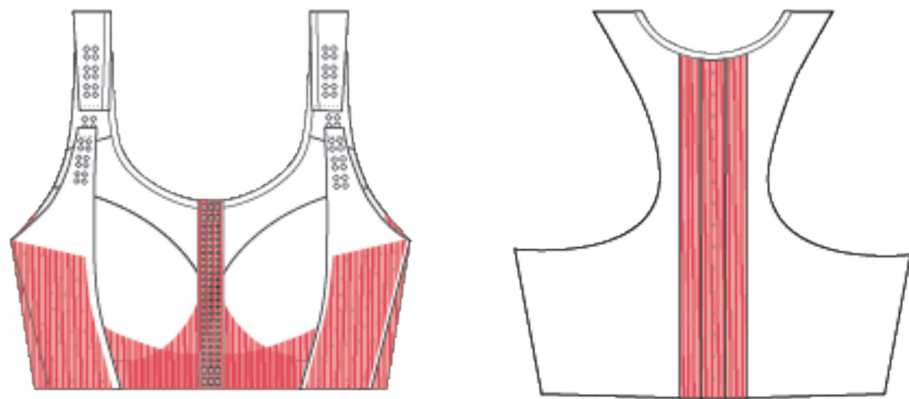
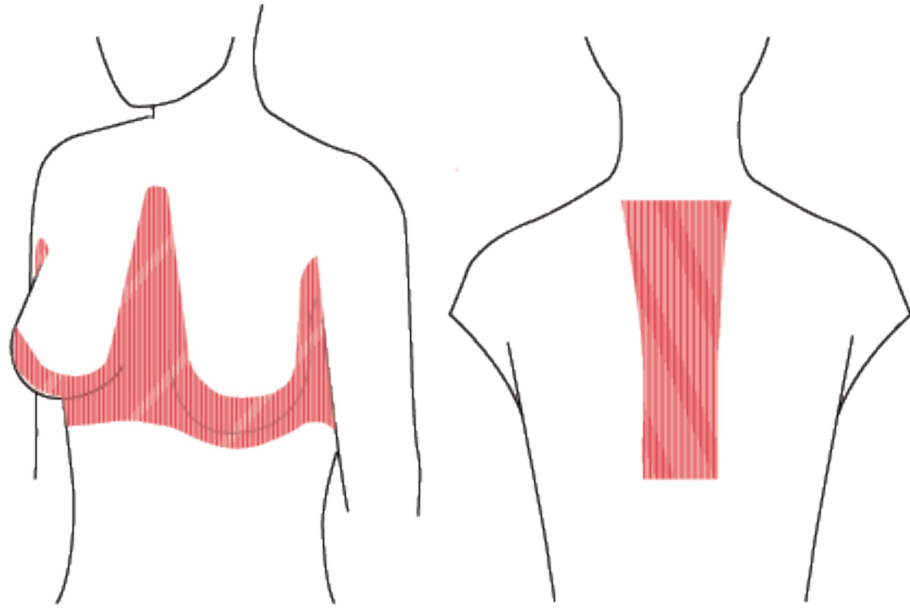




Feature 3-
Kinesiology inspired back support



Feature 4- Breathability



FEATURE 5-
Natural Feel Comfort





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Short term outcome:

- Easy On & Off & Adjust the level of support
- Breathability
- Boost performance in sports

Long term outcome:

- Posture correction
- Lower the risk of injuries during sports and putting on the bra

Evaluation

	Cindy & Her team	Arthritis	CP with decreased hand dexterity	Nathalie
FEATURE 1- Opening				
FEATURE 2- Adjustable support				
FEATURE 3- Kinesiology inspired back support				
FEATURE 4- Breathability				
FEATURE 5- Natural Feel Comfort				

Coming up?

Thank you!