

Jeyeon Jo

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EDUCATION

Cornell University	Ithaca, NY
Ph.D., Human Centered Design, Concentration in Apparel Design	August 2023
Dissertation: <i>Body Monitoring using Garment-friendly Wearable Sensors</i>	
Advisor: Dr. Heeju Park	
Seoul National University	Seoul, South Korea
M.S., Textiles, Merchandising and Fashion Design	February 2017
Thesis: <i>Clothing Acculturation of North Korean Female Defectors in South Korea</i>	
Advisor: Dr. Jisoo Ha	
Seoul National University	Seoul, South Korea
B.S., Textiles, Merchandising and Fashion Design	August 2014

ACADEMIC APPOINTMENTS

University of Georgia	Athens, GA
<i>Assistant Professor, Textiles, Merchandising, and Interiors</i>	August 2023 – Present
<ul style="list-style-type: none"><CAD for Apparel Design and Production>, <Product Development in Textile and Apparel Industries>, <Special Topics in TXMI: Virtual Garment Prototyping>, <Special Topics in TXMI: Textile Design and Fabrication>, <Creativity in Fashion and Interiors>	
Cornell University	Ithaca, NY
<i>Graduate Assistant, Performance Apparel Design Lab</i>	August 2019 – July 2023
Mongolia International University	Ulaanbaatar, Mongolia
<i>Full-time Lecturer, Department of Fashion Design</i>	August 2017 – June 2019
<ul style="list-style-type: none"><Sewing Techniques>, <Fashion Design 1 & 2>, <Pattern Drafting 1 & 2>, <Draping>, <Digital Design>, <Senior Fashion Portfolio>	
Seoul National University	Seoul, South Korea
<i>Graduate Assistant, Fashion Design Lab</i>	July 2014 – August 2016

PEER-REVIEWED PUBLICATIONS

- (In press) **Jo, J.**, & Park, H., Battery-Free Head Orientation Measurement Using Passive RFID Tags for Lateral Glance Detection for Children with Autism Spectrum Disorder.
- (In revision) **Jo, J.**, & Park, H., Stretchable Fiber Optic-Embedded Gait Monitoring Insole.

7. **Jo, J.**, & Park, H. T. (2024). Machine Embroidery Enclosure for Stretchable Fiber Optic Respiration Sensor. *Advanced Sensor Research*, 3(1), 2300017.
6. **Jo, J.**, & Park, H. (2024). Fit of fire boots: exploring internal morphology using computed tomography. *International Journal of Occupational Safety and Ergonomics*, 1-10.
5. Lim, H., Zhang, R., Pendyal, S., **Jo, J.**, & Zhang, C. (2023, March). D-Touch: Recognizing and Predicting Fine-grained Hand-face Touching Activities Using a Neck-mounted Wearable. *In Proceedings of the 28th International Conference on Intelligent User Interfaces* (pp. 569-583).
4. **Jo, J.**, Xu, A., Mishra, A. K., Bai, H., Derkevorkian, A., Rabinovitch, J., Park, H., & Shepherd, R. F. (2022). Measurement of Parachute Canopy Textile Deformation Using Mechanically Invisible Stretchable Lightguides. *Advanced Materials Technologies*, 2200437. [DOI](#)
3. **Jo, J.**, Sokolowski, S., McQuerry, M., Griffin, L., & Park, H. (2022). Firefighters' feet: Differences by sex and weight-bearing. *Applied Ergonomics*, 102, 103753. [DOI](#)
2. Choi, S. Y., **Jo, J.**, Lee, Y., Ha, J., & Lee, J. (2022). A cross-cultural study of the proximity of clothing to self between millennial women in South Korea and Mongolia. *Fashion and Textiles*, 9(1), 1-23. [DOI](#)
1. **Jo, J.**, & Ha, J. (2018). Clothing acculturation of North Korean female defectors in South Korea. *Fashion and Textiles*, 5(1), 1-15. [DOI](#)

INVITED BOOK CHAPTER

(In press) **Jo, J.**, Conroy, M., & Park, H. Textile Interface for Wearable Sensors. *Bloomsbury Encyclopedia of World Textiles*.

PEER-REVIEWED CONFERENCE PROCEEDINGS

14. Lin, Y., & **Jo, J.** (2024). LeatherBoard: Sustainable On-body Rapid Prototyping with Leather Scraps and Machine Embroidery. In *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems* (pp. 1-7).
13. **Jo, J.** & Park, H. (2022). Machine Embroidery Enclosure for Stretchable Fiber Optic Respiration Sensor. *2022 Annual Conference of ITAA (International Textile and Apparel Association)*, Denver, CO.
12. **Jo, J.** & Baytar, F. (2022). Generative pants pattern making for optimized fit in mass customization. *2022 Annual Conference of ITAA (International Textile and Apparel Association)*, Denver, CO.

11. **Jo, J.** & Park, H. (2021). Fiber Optic-embedded Gait-Tracking Insole for Detection of Toe-Walking in Children with Autism Spectrum Disorder. *2021 Annual Conference of ITAA (International Textile and Apparel Association)*.
10. **Jo, J.**, Zhang, Z., Griffin, L., Sokolowski, S., McQuerry, M. & Park, H. (2021). Differences in Foot Measurement between Female and Male Firefighters. *2021 Annual Conference of ITAA (International Textile and Apparel Association)*. [DOI](#)
9. **Jo, J.**, Kong, D. & Park, H. (2021). BLInG: Beads-Laden Interactive Garment. In *2021 International Symposium on Wearable Computers (ISWC '21)*. Association for Computing Machinery, New York, NY, USA, 189–193. [DOI](#) [Video](#)
8. **Jo, J.** & Park, H. (2021). RFInsole: Batteryless Gait-Monitoring Smart Insole Based on Passive RFID Tags. In *2021 International Symposium on Wearable Computers (ISWC '21)*. Association for Computing Machinery, New York, NY, USA, 189–193. [DOI](#) [Video](#)
7. **Jo, J.** & Kao, C. H. (2021). SkinLace: Freestanding Lace by Machine Embroidery for On-Skin Interface. Extended Abstracts of the 2021 *CHI Conference on Human Factors in Computing Systems*. Association for Computing Machinery, New York, NY, USA, Article 444, 1–6. [DOI](#) [Video](#)
6. **Jo, J.** & Park, H., (2020) “Fit of Fire Boots: CT (Computerized Tomography) Scan and 3D Simulation”, *International Textile and Apparel Association Annual Conference Proceedings 77(1)*. [DOI](#)
5. **Jo, J.** & Park, H., (2020) “Head Orientation Monitoring with Wearable RFID for Detection of Lateral Glance of Children with Autism Spectrum Disorder”, *International Textile and Apparel Association Annual Conference Proceedings 77(1)*. [DOI](#)
4. Choi, S. Y., Lee, J., **Jo, J.**, Ha, J., & Lee, Y. (2018). A Cross-cultural Study of Proximity of Clothing to Self between South Korea and Mongolia. *2018 Annual Conference of ITAA (International Textile and Apparel Association)*, Cleveland, Ohio.
3. Choi, S. Y., Lee, J., & **Jo, J.** (2018). Zero-waste pattern making for Deel, the Mongolian traditional costume. *2018 SFTI International Conference*, Portugal.
2. **Jo, J.**, Lee, J., Choi, S. Y., Ha, J. & Lee, Y. (2018). A cross-cultural comparison of the effect of individualism-collectivism on the proximity of clothing to self. *2018 ICCT (International Conference on Clothing and Textiles)*, Seoul, South Korea.
1. **Jo, J.**, & Ha, J. (2017). Clothing acculturation of North Korean female defectors in South Korea. *2017 Spring Conference of Korean Society of Clothing and Textiles*, Seoul, South Korea.

IGNITE Cornell Research Gap Funding Program

September 2021 – August 2022

Topic *Gait-Monitoring Fiber Optic Shoe Insole*
PI Huiju Park and Jeyeon Jo
Source Cornell Technology for Licensing IGNITE Research Acceleration
Amount \$41,400
Period Sep 2021 – Aug 2022

HEAA Alan D. Mathios Research and Service Grant

April 2020 – August 2020

Topic *Passive RFID tag-based Wearable Idiopathic Toe Walking Detection Device*
PI Jeyeon Jo
Source College of Human Ecology, Cornell University
Amount \$980
Period April 2020 – Aug 2020

EXHIBITIONS

Pianist 2016
Regular Exhibition of the Fashion Group of Seoul National University
JW Marriott Dongdaemun Square Seoul, Seoul, South Korea.

True Romance 2015
Invitational Exhibition of Korea Fashion Illustration Association
Gallery Force, Beijing, China.

Amusement Park 2015
Regular Exhibition of Korea Fashion Illustration Association
Seoul Arts Center, Seoul, South Korea.

PROFESSIONAL EXPERIENCE

Samsung Fashion Institute Remote
Fashion Researcher July 2017 – April 2019

- Researched and reported consumer trends biweekly about textiles, consumer electronics, cultural events, and lifestyles and consumption habits of target customer groups.

Storets, JAE Co., Ltd Seoul, South Korea
Assistant, Data Analysis and Business Development March – June 2017

- Collected and analyzed customer data of a fashion e-commerce, Storets, to contribute to the day-to-day marketing decisions.
- Managed distribution channel expansions to UK fashion retailers (Topshop, ASOS). Communicated with designers and manufacturers, examined the product quality, and shipped the products.

Republic of Korea Air Force Seongnam, South Korea
Military Police Mar 2011 – Feb 2013

- Military service at Seoul Airport

SKILLS

- Garment design and construction
- Machine embroidery, Machine knitting
- 3D body/foot scan
- Textile testing
- Rapid Prototyping: 3D printing, Laser cutting, Silicone rubber casting, Circuit making, etc.
- Adobe Photoshop, Illustrator, Premiere Pro, InDesign
- CLO 3D, Rhino, Grasshopper, Browzwear
- Python, R, Matlab
- Arduino, Circuit Python
- SPSS, Google Analytics