

# HEAJOO LEE (YVONNE)



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## EDUCATION

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- MFA** College for Creative Studies, Detroit, MI, US  
2019 - 2021 Master of Fine Arts, Color & Materials Design  
Anticipated Graduation Dec. 2021  
*Thesis: BIOMIX: Biomaterial Structures*
- M.S.** Central Michigan University, Mount Pleasant, MI, US  
2011 - 2014 Master of Science, Fashion Merchandising and Design  
*Thesis: An Investigation of Current Nursing Scrub Jackets and Proposed Improvements*
- B.S.** Chung Nam National University, Daejeon, South Korea  
2006 - 2010 Bachelor of Science in Human Ecology, Clothing & Textiles

## ADDITIONAL EDUCATION

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- Ph.D.** University of Minnesota, St. Paul, MN, US  
2016 -2019 ABD, Apparel Study, College of Design

## TEACHING EXPERIENCES

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## TEACHING INTEREST

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Flat Pattern, Draping, Sewing Construction, Fit Analysis, Fashion Illustration, CAD Design, Trend Analysis & Fashion Forecasting, Product Development, and Innovative Design related to human-centered design and sustainable design

## COURSES TAUGHT AND ASSISTED

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- Summer 2022** **Adjunct Faculty (FMD 241: Fashion Design: Illustration)**  
**Central Michigan University, Mount Pleasant, MI, US**  
**Online**
- Taught basic illustration skills required in fashion careers to include female, male, and children fashion figures and technical drawing of garments' design
  - Managed a Blackboard and responded students' questions and problems

- Graded assignments and projects and provided feedback on assignments or students' inquiries

**Jan. 2022  
May 2022  
Hybrid**

**Adjunct Faculty (FMD 246: CAD for Apparel Merchandising and Design)  
Central Michigan University, Mount Pleasant, MI, US**

- Taught the fundamental principles of Fashion CAD in the apparel industry to produce fashion illustrations, textile prints, and garment designs using color and textile mapping
- Developed course materials and designed weekly activities
- Advised students to participate in class activities or meet course requirements
- Graded assignments and projects and provided feedback on assignments or students' inquiries

**Sep. 2018  
May 2019**

**Adjunct Faculty (FMD 245: Flat Pattern-Fashion Design Methods)  
Central Michigan University, Mount Pleasant, MI, US**

- Developed the course outline and taught the fundamental principles of the flat pattern, including the development of a trend board, construction system, and technical package
- Updated practical course materials, including fit analysis, basic sewing construction skills, technical package, the principle of drafts (Bodice, Pants, Skirt, Sleeve and Torso), and description of certain sewing skills
- Advised students to participate in class activities or meet course requirements
- Served on and attended college committees

**Jan. 2019  
May 2019**

**Adjunct Faculty (FMD 345: Draping Fundamentals)  
Central Michigan University, Mount Pleasant, MI, US**

- Taught the process of transforming a clothing design into a three-dimensional to consider the human body
- Taught how to analyze factors that affect garment fit, including-ease, balance, materials, construction, and evaluating fit relative to specific end-use, aesthetics, and comfort
- Developed a course curriculum and materials based on pattern development relative to garment construction methods
- Supported and advised students to be well accommodated for their school life and education

**2012 (Summer)  
2013 (Summer)  
2014 (Summer)**

**Assistant Instructor  
High School Summer Fashion Camp  
Central Michigan University, Mount Pleasant, MI, US**

- Prepared the summer camp and made schedules, materials, and brochures

- Taught fashion illustration and development of mood and color boards using Adobe suits such as Illustration, Photoshop, and InDesign
- Taught the necessary sewing skills and the principal skills to manipulate products made from recycled garments
- Produced and helped a final students' fashion show

**Aug. 2013**                    **Teaching Assistant (FMD 246 CAD Fashion Design & Merchandising)**  
**Dec. 2014**                    **Central Michigan University, Mount Pleasant, MI, US**

- Assisted with updating course materials and participated in the in-class activities
- Assisted the faculty teaching illustration & CAD courses
- Graded writing assignments and projects, provided feedback on assignments, and answered students' inquiries

**Aug. 2012**                    **Lab Monitor (Design Sewing Lab)**  
**May 2013**                    **Central Michigan University, Mount Pleasant, MI, US**

- Assisted students to use the facility how to use a sewing and serger machine
- Managed a lab and supplies
- Made paper pattern and prepared class materials

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## **RESEARCH EXPERIENCES**

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### **RESEARCH INTEREST**

Functional Design, Creative Design, Human centered Design, Bio-Design, and Sustainable Design

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### **RESEARCH ASSISTANT EXPERIENCES**

**Sep. 2016**                    **Research Assistant-Human Dimensional Lab**  
**May 2018**                    **University of Minnesota, St. Paul, MN, US**

- Researched literature on fit assessment and analyzed data on dimensions of the body section comparing the VITUS 3D body scanner and Structure SDK 3D scanner
- Collaborated with nine organizations, including Cornell University and a fire-fighter organization, to develop the methods and tools for 3D measurement of hands and feet for glove and shoe design for firefighters
- Conducted a study on dimensions of the dynamic hand position and presented it at the International Textile and Apparel Association Conference (ITAA) and the International Conference on Applied Human Factors and Ergonomics (AHFE) in 2018
- Published three manuscripts on dynamic hand position in the International Conference on Applied Human Factors and Ergonomics (AHFE) in 2018

Jan. 2012  
Dec. 2014

**Research Assistant-Body Scanning Lab  
Central Michigan University, Mount Pleasant, MI, US**

- Mastered various equipment, including perfecting the thermal balance between fabrics and the human body by using a thermal camera, thermal mannequin, hot-plate test, and body scanner
- Researched literature on thermal resistance and moisture movement and conducted tests, comparing different fiber content and fabric types
- Assisted in collecting, recording, and analyzing thermal resistance (Rct) and Water-Vapor Resistance (Ret)
- Helped to test the thermal resistance of sportswear through the thermal mannequin and hot-plate test at the request of Nike and Under Armour
- Conducted a study on evaluating thermal comfort of fabrics for nurses' uniforms and presented at the International Textile and Apparel Association conference (ITAA) in 2015 and published in AATCC Journal of Research in 2018
- Assisted in researching the physical comfort and emotional effects between the garment and the human body and collecting Biofeedback and Aniomagic system data
- Assisted in testing and collecting the data on the mechanical characteristics between the body and garments, such as the fit of motion, degree of freedom, range of motion, and momentum of human joints, using a motion-capture system

## **REFEREED RESEARCH PUBLICATIONS**

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**Lee, H., & An, S. K.** (2022, under review). Examination of Stain Resistance for Medical Scrubs. *International Journal of Textile Research*.

Sokolowski, S., **Lee, H.**, & Seifert, E. (2018, June). Dimensions of the Dynamic Hand: Implications for Glove Design, Fit, and Sizing. In *Advances in Interdisciplinary Practice in Industrial Design: Proceedings of the AHFE 2018 International Conference on Interdisciplinary Practice in Industrial Design, July 21-25, 2018, Orlando, Florida, USA* (Vol. 790, p. 38). Springer.

Griffin, L., Sokolowski, S., **Lee, H.**, Seifert, E., Kim, N., & Carufel, R. (2018, July). Methods and Tools for 3D Measurement of Hands and Feet. In *International Conference on Applied Human Factors and Ergonomics* (pp. 49-58). Springer, Cham.

Griffin, L., Kim, N., Carufel, R., Sokolowski, S., **Lee, H.**, & Seifert, E. (2018, July). Dimensions of the Dynamic Hand: Implications for Glove Design, Fit, and Sizing. In *International Conference on Applied Human Factors and Ergonomics* (pp. 38-48). Springer, Cham.

**Lee, H., & An, S. K.** (2018). A Comparative Analysis of Thermal Comfort Properties for Nurse Scrub Jackets. *AATCC Journal of Research*, 5(2), 35-39.

## **REFEREED RESEARCH PRESENTATIONS**

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**Lee, H.** (2022, under review). *BIOMIX: Biomaterial Structures*. Bio-Futures for Transplanetary Habitats Symposium. The Hub for Biotechnology in the Built Environment. UK. <http://bbe.ac.uk/>

**Lee, H.** (2019). *Part 1: Athletes' satisfaction with their uniforms: Identifying design criteria for optimizing figure skating dress*. International Textile and Apparel Association Proceedings [abstract]. Monument, CO. Retrieved from <http://www.itaaonline.org>.

**Lee, H., & Seifert, E.** (2018). *Development of Design Criteria for Mastectomy Bra: Human-Centered Design (Part I)*. International Textile and Apparel Association Proceedings [abstract]. Monument, CO. Retrieved from <http://www.itaaonline.org>.

Carufel, R., **Lee, H.**, Kim, N., Seifert, E., Griffin, L., & Sokolowski, S. (2018). *Dimensions of the Dynamic Hand: An In-Depth Analysis of Dorsal vs. Palmar Lengths and Palmar Breadth*. International Textile and Apparel Association Proceedings [abstract]. Monument, CO. Retrieved from <http://www.itaaonline.org>.

**Lee, H. & An, S. K.** (2015). *Development and evaluation of nurses' scrub jacket through the functional design process*, International Textile and Apparel Association Proceedings [abstract]. Monument, CO. Retrieved from <http://www.itaaonline.org>.

**Lee, H. & An, S. K.** (2015). *Comparison of stain resistance property for nurses' scrub jacket*, International Textile and Apparel Association Proceedings [abstract]. Monument, CO. Retrieved from <http://www.itaaonline.org>.

An, S. K., Ko, S. B., Domina, T., **Lee, H. J.**, Smith, M., & Sheldon, K. (2015). *Measuring the Restriction of Jumping Motions While Wearing the Ballistic Vest*. The 2015 American Association of Textile Chemists and Colorists International Conference, Savannah, Georgia.

**Lee, H., & An, S. K.** (2014). *Evaluating thermal comfort of fabrics for nurses' uniforms*. International Textile and Apparel Association Proceedings [abstract]. Monument, CO. Retrieved from <http://www.itaaonline.org>.

## **PERSONAL/PROFESSIONAL EXPERIENCES**

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**Aug. 2017**      **Chairperson of Graduate Students**  
**May 2018**      **University of Minnesota, St. Paul, MN, US**

- Served as a representative for the fashion design program in graduate student government at the University of Minnesota, which had members coming from the various departments across campus
- Participated in the amendment and review process as a graduate student representative of the Design Department
- Organized team building activities and events such as visiting exhibitions and celebrating special occasions for my team
- Held regular meetings with co-workers to discuss ways to address workplace challenges and to improve corporate culture

**Feb. 2015**      **Assistant Designer (Intern)**  
**Feb. 2016**      **Komplique Inc., Grand Rapids, MI, US**

- Researched trend forecasting and updated seasonal reports about launch of new brands launching and attractiveness of assortments in the domestic market
- Created original designs for women's swimwear and dresses
- Made a sample of each design and conducted tec-design for fit analysis
- Assisted in product development, including trend boards, pattern making, and print design

**July 2012**      **PAA/CEHS SCHOLARSHIP**  
**Paris American Academy, Paris, France**

- Scholarship for study abroad and exchange programs
- Worked individually and in teams on varied assignments resulting in work suitable for a professional or internship portfolio
- Learned haute couture sewing and design techniques
- Studied costume history, European fashion trends, and luxury retailing
- Attended/participated in workshops on shibori and couture techniques

## **HONORS & AWARDS**

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- **Innovative Design Scholarship Award (2019)**  
Title: The Soundless Outcry (Co-Workers: Su Kyoung An & Li Jiang)  
International Textile and Apparel Association (ITAA), Denver, CO, US
- **Student Academic Excellence Award (2018)**  
College of Design, University of Minnesota, St. Paul, MN, US
- **Award for Best Paper-1<sup>st</sup> Place (2015)**  
Title: Development and evaluation of nurses' scrub jackets through the functional design process.  
International Textile and Apparel Association (ITAA), Santa Fe, NM, US
- **Award for Design Competition 2<sup>nd</sup> Place (2013)**  
Title: Hope of Wings  
American Sewing Expo- Passion of Fashion, Highland, MI, US
- **Award for Design Competition 1<sup>st</sup> Place (2011)**  
Title: The Restoration & The Shackles  
Sponsorship from Cotton Inc., Central Michigan University, Mount Pleasant, MI, US
- **Award for Design Competition 3<sup>rd</sup> Place (2008)**  
Title: New Brand Launching of Beanpole  
Samsung Inc., South Korea

## **REFEREED DESIGN EXHIBITIONS**

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- **Fashion Future** (September 1-30, 2021) Exhibition  
Detroit Month of Design, Detroit, MI, US
- **As My Name** (November 18-20, 2020) Virtual Exhibition  
International Textile and Apparel Association, US  
Co-Workers: Su Kyoung An, Hope May, & Natalie Zainea  
Design Catalog available: [https://cdn.ymaws.com/itaaonline.site-ym.com/resource/resmgr/publications/itaa\\_2020\\_catalog\\_rev012021.pdf](https://cdn.ymaws.com/itaaonline.site-ym.com/resource/resmgr/publications/itaa_2020_catalog_rev012021.pdf)
- **EMBRACE 2030** (December 2019) Exhibition  
Cadillac Sponsorship Project: Colors & Materials, College for Creative Studies, Detroit, MI, US
- **The Soundless Outcry** (October 25-29, 2019) Exhibition  
International Textile and Apparel Association, Las Vegas, Nevada, US  
Co-Workers: Su Kyoung An & Li Jiang  
Design Catalog available:  
[https://cdn.ymaws.com/itaaonline.org/resource/resmgr/publications/itaa\\_2019\\_catalog\\_with\\_award.pdf](https://cdn.ymaws.com/itaaonline.org/resource/resmgr/publications/itaa_2019_catalog_with_award.pdf)
- **Coexistence** (September 29, 2018-January 6, 2019) Exhibition  
Goldstein Museum of Design: 100<sup>th</sup> Anniversary Exhibition. St. Paul, MN, US
- **Magnolia** (November 12-16, 2014) Exhibition  
International Textile and Apparel Association, Charlotte, NC, US  
Design Catalog available:  
[https://cdn.ymaws.com/itaaonline.org/resource/resmgr/Publications/ITAA\\_2014\\_Design\\_Catalog\\_Fin.pdf](https://cdn.ymaws.com/itaaonline.org/resource/resmgr/Publications/ITAA_2014_Design_Catalog_Fin.pdf)
- **DieWelle** (November 15, 2014) Fashion Show  
International Textile and Apparel Association, Charlotte, NC, US
- **Pale-Horse** (November 15, 2014) Fashion Show  
International Textile and Apparel Association, Charlotte, NC, US
- **Blossom of Hope** (June 2014) Gala Show  
ManneqART, Laurel, MD, US  
Design Catalog available: <http://www.manneqart.org/2014-entries/>
- **Gangplank** (September 25-30, 2014) Exhibition  
American Sewing Expo, Passion of Fashion, Highland, MI, US
- **Black and Gold Sew** (September 27-30, 2013) Exhibition  
American Sewing Expo, Passion of Fashion, Highland, MI, US
- **Tree of Sustainability** (June 2013) Gala Show  
ManneqART, Laurel, MD, US  
Design Catalog available: <http://www.manneqart.org/2013-entries/>

- **Hibiscus** (November 2012) Fashion Show  
International Textile and Apparel Association, Honolulu, HI, US
- **Restoration & Shackles** (May 2011) Fashion Show  
Sponsorship with Cotton Inc., Central Michigan University, Mount Pleasant, MI, US

## **PRESS**

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- South Korean graduate student fashion designer prepares for annual fashion show at Central Michigan University (Shaffer, 2014). *The Morning Sun*, Accessed at: [https://www.themorningsun.com/news/nation-world-news/south-korean-graduate-student-fashion-designer-prepares-for-annual-fashion/article\\_587cd344-7243-5336-8727-42c8baba4e77.html](https://www.themorningsun.com/news/nation-world-news/south-korean-graduate-student-fashion-designer-prepares-for-annual-fashion/article_587cd344-7243-5336-8727-42c8baba4e77.html)
- Threads Best of the Best' offers students chance to present favorite designs, raises more than \$ 18K (Cotero, 2013). *CM Life*, Accessed at: [https://issuu.com/cmlife/docs/10-28-2013\\_e/3](https://issuu.com/cmlife/docs/10-28-2013_e/3)
- Via CMU, a South Korean student plans to take on the fashion world (Gittleman, 2013). *The Morning Sun*, Accessed at: [https://www.themorningsun.com/entertainment/via-cmu-a-south-korean-student-plans-to-take-on/article\\_c7563040-2336-5004-ba1f-9194b865ab69.html](https://www.themorningsun.com/entertainment/via-cmu-a-south-korean-student-plans-to-take-on/article_c7563040-2336-5004-ba1f-9194b865ab69.html)

## **GRANTS**

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- International Textile and Apparel Association (ITAA) Innovative Design Scholarship (2019), \$500.00, Denver, CO, US
- CCS MFA Scholarship (2019-2021), \$12,000.00, Funding Source: The College for Creative Studies, Detroit, MI, US
- CCS International Student Grant (2019-2021), \$1,500.00, Funding Source: The College for Creative Studies, Detroit, MI, US
- Goldstein Museum of Design: 100th Anniversary Exhibition conference travel fund (2018), \$800.00, Funding Source: Department of Design, Housing, and Apparel, University of Minnesota, St. Paul, MN, US
- International Textile and Apparel Association (ITAA) annual conference travel fund (2018), \$800.00, Funding Source: Department of Design, Housing, and Apparel, University of Minnesota, St. Paul, MN, US
- Research Fund (2014), \$500.00, Funding Source: Central Michigan University, MI, US
- International Textile and Apparel Association (ITAA) annual conference travel fund (2013), \$336.00, Funding Source: Human Environmental Studies Department, Central Michigan University, MI, US



- Graduate Student Research & Creative Endeavors Grant (2013), \$250.00, Funding Source: Human Environmental Studies Department, Central Michigan University, MI, US

### **NON-REFEREED DESIGNS AND RESEARCH PRESENTATIONS**

- 2019 An Inspirational Presentation and Design Exhibit  
Central Michigan University, Mount Pleasant, MI, US
- 2018 Research Poster Presentation: Comparison Study for Firefighter PPE  
University of Minnesota, St. Paul, MN, US
- 2018 Research Poster Presentation: Research of Dynamic Hand Position  
The University of Minnesota, St. Paul, MN, US
- 2017 Research Poster Presentation: Research of Human Dimensional Lab  
The University of Minnesota, St. Paul, MN, US
- 2014 Threads Fashion Show  
Central Michigan University, Mount Pleasant, MI, US  
Award: Graduate Student Winner
- 2014 SRCEE: DEVELOPMENT NURSES' SCRUB JACKET  
Central Michigan University, Mount Pleasant, MI, US
- 2013 SRCEE: DEVELOPMENT AND EVALUATION OF OPTIMIZING FABRIC FOR A  
NURSES' SCRUB JACKET  
Central Michigan University, Mount Pleasant, MI, US
- 2013 Best of Best, Fashion Show  
Central Michigan University, Mount Pleasant, MI, US
- 2012 Threads Fashion Show  
Central Michigan University, Mount Pleasant, MI, US  
Award: Graduate Student Winner
- 2010 Threads Fashion Show  
Chun Nam National University, Chun Nam, South Korea  
Award: Creative Designer Winner

### **MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

- 2019 to Present: Biodesign Challenge (BDC)
- 2011 to Present: International Textile and Apparel Association (ITAA)
- 2012 to Present: American Association of Textile Chemists and Colorists (AATCC)

- 2014 to Present: Costume Society of America (CSA)
- 2012 to 2014: ManneqART

## **PROFESSIONAL SKILLS**

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### **Design Skills**

Apparel Construction  
Flat Pattern and Draping  
Fit Analysis  
Couture Hand Sewing  
Fashion Illustration  
Textile Pattern / Print Design  
Natural Dyeing / Biodegradable Design

### **Technical Skills**

VITUS 3D Body Scanner  
Thermal Mannequin & Camera & Hot-Plate System  
Laser Cutting  
3D Printing  
Lectra Modaris  
Adobe Creative Suite (Illustrator, Photoshop, & InDesign)  
Microsoft Office Suite  
Kaledo Suite (Style, Print, Knit, & Weave)  
Statistics software (SPSS & R-Studio)  
Teaching tool (Canvas, Moodle, Miro, Zoom, & Webex)

### **Research Skills**

Trend Forecasting  
Functional Design Process  
Creative Design  
Sustainable Design / Bio-Design  
Color and Material Analysis