

YOUNG-A LEE, Ph.D.
Professor and Graduate Program Officer
Department of Consumer and Design Sciences
College of Human Sciences
Auburn University

364 Spidle Hall
Phone: (344) 844-6458; e-mail: yalee@auburn.edu
R^G: https://www.researchgate.net/profile/Young_A_Lee2
[Google Scholar Citation](#)

Education

Ph.D., Michigan State University, 2005, Human Environment: Design and Management
M.A., Michigan State University, 2001, Apparel and Textiles

Summary

Dr. Young-A Lee has achieved scholarly accomplishments with an established record of productive, independent, transferrable, and impactful research affecting diverse population, such as aged, disabled, or engaged in hazardous activity. Dr. Lee made significant contributions in the area of design and product development with the seamless integration of innovative design technologies and sustainability practices by working with colleagues from diverse disciplines. Her scholarship, consisting of research and creative activities, focuses on the STEM in Fashion under the framework, “Leading edge technology application to sustainable product design, development, and evaluation for health and well-being of people and the planet.” Her creative scholarship often derives from her research activities using emerging concepts such as sustainability, material innovation, wearable technology, 3D printing, and virtual prototyping. Prior to join in Auburn University in 2018, Dr. Lee have worked 13 years in two different land grant institutions: Iowa State University (2008-2018) and Florida State University (2005-2008) with her strong passion and commitment to teaching, research, and service. She has co-authored with over 220 works including over 50 peer-reviewed full-length research papers, 2 book chapter, 20 juried design exhibits tied with her research program, over 120 refereed international and national conference presentations, and more than 60 invited presentations at the international, national, regional, or local level in the area of her research scholarship. She has been the recipient of EPA P3 Award, EPA P3 Phase II Winner, Department of Justice Phase I Body Armor Challenge Award, ITAA Mid-Career Excellent Award, ITAA Service Award, and many more. She has been recently working on the scale development of wearable technology in fashion, sustainability practices via Alabama Cotton AwaREness (CARE) funded by Cotton Inc., and functional/performance wear design, development, and evaluation using emerging design technologies for healthcare workers (funded by Auburn’s Internal Grant Program; AAES Hatch Project). Lastly, Dr. Lee welcomes new challenges, dedicates her time to learn current phenomena, and is passionate to share her discovery with future generation.

Area of Teaching Expertise

Design and Product Development (for functional/protective and creative clothing), Fashion Forecasting, 3D Design and Prototyping, Computer Integrated Textiles and Fashion Design, Digital Fashion Rendering and Portfolio Development, Sustainability Practices, Research Methods

Taught since 2018:

CADS 2770 Computer-Aided Design for Apparel
CADS 3900 Directed Studies
CADS 3970 Special Problems
CADS 4920 Internship – APDP
CADS 5750 Apparel Line Development
CADS 5770 Portfolio Development for Apparel Designer
CADS 7040 Protocol for Graduate Study in Design & Consumer Sciences
CADS 7530 Sustainability Theory and Applications
CADS 7900 Directed Studies
CADS 7910 Supervised Teaching in CADS
CADS 7960 Special Problems
CADS 7990 Research & Thesis
CADS 8990 Research & Dissertation

Research: Leading edge technology application to sustainable product design, development, and evaluation for health and well-being of people and the planet

- Application of emerging technologies to design and product development: Sustainable product design and development practices using innovative technologies; functional/protective clothing for special population
- Virtual product simulation + Digital technology + Consumer: 3D prototype design, development, & evaluation; Consumer/user perception, attitude, and decision-making process toward the use of emerging technology
- Geron-technological aspects of clothing: Smart clothing for older adult's healthy aging

SELECTED Publications:

- Lee, Y. A., Salahuddin, M., Gibson-Young, L., & Oliver, G. D. (in press; 2021). Assessing personal protective equipment needs for healthcare workers. *Health Science Reports*.
- Lee, Y. A., Min, S-H., & Koo, H. (2021). Apparel Design scholarship practices and its implication: Analysis of ITAA professionals' design abstracts from 1999 to 2017. *Clothing and Textiles Research Journal*, 39(2), 106-122. <https://doi.org/10.1177/0887302X20921461>
- Bakhshian, S., & Lee, Y. A. (2021; online first). Social acceptability and product attributes of smart apparel: Their effects on consumers' attitude and use intention. *The Journal of the Textile Institute*. <https://doi.org/10.1080/00405000.2021.1898138>
- Mahmood, N., & Lee, Y. A. (2021). Factors influencing older adults' acceptance of health monitoring smart clothing. *Family and Consumer Sciences Research Journal*, 49(4), 376-392. <http://doi.org/10.1111/fcsr.12404>
- Salahuddin, M., & Lee, Y. A. (2020). Identifying key quality features for wearable technology embedded products using the Kano model. *International Journal of Clothing Science and Technology*, 33(1), 93-105. <https://doi.org/10.1108/IJCST-08-2019-0130>
- Lee, Y. A., Gam, H-J., & Bakhshian, S. (2020). Apparel, textiles, and merchandising scholarship practices from 2000 to 2019: Analysis of FCSRJ and CTRJ. *Family & Consumer Sciences Research Journal*, 48(4), 308-320. <https://doi.org/10.1111/fcsr.12358>
- Nam, C-H & Lee, Y. A. (2020). Validation of the wearable acceptability range scale for smart apparel. *Fashion and Textiles: International Journal of Interdisciplinary Research*, 7:13, 1-17. <https://doi.org/10.1186/s40691-019-0203-3>
- Michel, G. M., Feori, M., Damhorst, M. L., Lee, Y. A., & Niehm, L. (2019). Stories We Wear: Promoting sustainability practices with the case of Patagonia. *Family and Consumer Sciences Research Journal*, 48(2), 165-180. <https://doi.org/10.1111/fcsr.12340>
- Bakhshian, S., Lee, Y. A., & Cao, W. (2019). Psycho-demographic determinants of young consumers' intention towards purchasing counterfeit apparel in a U.S. counterfeit capital. *Family & Consumer Sciences Research Journal*, 47(4), 324-341. <https://doi.org/10.1111/fcsr.12309>
- Nam, C-H., & Lee, Y. A. (2019). Multi-layered cellulosic material as a leather alternate in the footwear industry. *Clothing and Textiles Research Journal*, 37(1), 20-34. <https://doi.org/10.1177/0887302X18784214>
- Martindale, A., & Lee, Y. A. (2019). Students' perceptions of adopting minimal transformable wardrobes. *International Journal of Fashion Design, Technology and Education*, 12(1), 76-85. <https://doi.org/10.1080/17543266.2018.1477998>
- DeVaney, S., Spangler, A., Lee, Y. A., & Delgadillo, L. (2018). Tips from the experts on conducting and reviewing qualitative research. *Family & Consumer Sciences Research Journal*, 46 (4), 396-405.
- Kwon, Y. M., Lee, Y. A., & Kim, S. J. (2017). Case study on 3D printing education in fashion design coursework. *Fashion and Textiles: Special Collection on 3D Printing and Wearable Technology in Fashion*, 4:26, 1-20. doi: 10.1186/s40691-017-0111-3
- Michel, L., & Lee, Y. A. (2017). Cloth(ing) for the dead: Case study of three designers' green burial practices. *Fashion and Textiles: International Journal of Interdisciplinary Research*, 4(4), 1-18.
- DeVaney, S., Delgadillo, L., Lee, Y. A., & Spangler, A. (2017). From submission to acceptance: Publishing in a research journal. *Family & Consumer Sciences Research Journal*, 46 (1), 24-30. *Best Paper Award in Professional Issues
- Nam, C., Dong, H., & Lee, Y. A. (2017). Factors influencing consumers' purchase intention of green sportswear. *Fashion and Textiles: International Journal of Interdisciplinary Research*, 4(2), 1-17.
- Romeo, L. & Lee, Y. A. (2016). Apparel needs and expectations model. *International Journal of Fashion Design, Technology and Education*, 9 (3), 201-209.
- Lee, Y. A. (2015). Insight for building a successful academic journey. *Family & Consumer Sciences Research Journal*, 44 (1), 3-11.
- Hwang, C. G., Lee, Y. A., & Diddi, S. (2015). Generation Y's moral obligation and purchase intentions for organic, fair trade, and recycled apparel products. *International Journal of Fashion Design, Technology and Education*, 8 (2), 97-107.
- Romeo, L., & Lee, Y. A. (2015). Exploring apparel purchase issues with plus-size female teens. *Journal of Fashion Marketing and Management*, 19 (2), 120-135.
- Lee, Y. A. (2014). Computer design and digital fit of clothing. In Gupta D. and Zakaria N. (Eds), *Anthropometry, Apparel Sizing and Design*, Woodhead Publishing Limited, Cambridge, UK.

- Romeo, L., & Lee, Y. A. (2014). Exploring current ready-to-wear apparel attributes for plus-size female teens. *Family & Consumer Sciences Research Journal*, 43 (2), 145-159.
- Barker, J., Boorady, L., Lee, Y. A., Lin, S-H., Cho, E., & Ashdown, S. (2013). Exploration of firefighter turnout gear Part 1: Identifying male firefighter user needs. *Journal of Textile and Apparel, Technology and Management*, 8 (1).
- Romeo, L., & Lee, Y. A. (2013). Creative and technical design skills: Are college apparel curriculums meeting industry needs? *International Journal of Fashion Design, Technology and Education*, 6 (3), 132-140.
- Lee, Y. A., Damhorst, M. L., Lee, M. S., Kozar, J., & Martin, P. (2012). Older women's clothing fit concerns and their attitudes toward use of 3D body scanning. *Clothing and Textiles Research Journal (CTRJ)*, 30 (2), 102-118.
- Park, S. M., Choi, K. M., Nam, Y. J., & Lee, Y. A. (2011). Multi-purpose three-dimensional body form. *International Journal of Clothing Science and Technology*, 23 (1), 8-24.
- Zong, Y., & Lee, Y. A. (2011). An exploratory study of integrative approach between 3D body scanning technology and motion capture system in the apparel industry. *International Journal of Fashion Design, Technology and Education*, 4 (2), 91-101.
- Lee, Y. A. (2011). Clothing as an environment for older adults' successful aging. *International Journal of Consumer Studies*, 35 (6), 702-710.
- Lee, Y. A., & Sontag, M. S. (2010). An assessment of the proximity of clothing to self scale for older persons. *International Journal of Consumer Studies*, 34 (4), 443-448.
- Lee, Y. A., Ashdown, S., & Slocum, A. (2006). Measurement of surface area of 3-D body scans to assess the effectiveness of hats for sun protection. *Family & Consumer Sciences Research Journal*, 34 (4), 366-385.
- Ashdown, S., Slocum, A., & Lee, Y. A. (2005). The third dimension for apparel designers: Visual assessment of hat designs for sun protection using 3-D body scanning. *Clothing and Textiles Research Journal*, 23 (3), 151-164.

SELECTED Juried Design Exhibition:

- Lee, Y. A., & Li, Y. (June 18, 2021). *The second skin in the new normal*. The 112th American Association of Family & Consumer Sciences Annual Conference & Expo: Apparel, Textiles & Design Juried Showcase and Exhibition [virtual]
- Lee, Y. A. (June 25, 2019). *Transition with a layered protection*. The 110th American Association of Family & Consumer Sciences Annual Conference & Expo: Apparel, Textiles & Design Community Juried Showcase and Exhibition, St. Louis, MO.
- Kwon, Y. M., & Lee, Y. A. (July 3-6, 2018). *3D Printing Norigae*. 2018 International Costume Exhibition of the Society of Korean Traditional Costume: Aesthetics of Tradition and Modernity. Kobe Fashion Museum, Japan.
- Lee, Y. A., & Kwon, Y-M. (November 17, 2017). *Internal peace in life*. Anchored by our past, navigating our future: Design Exhibition. International Textile and Apparel Association, St. Petersburg, FL.
- Nam, C., & Lee, Y. A. (November 16, 2017). *RETHINK III: Bio-shoes in urban campus life*. Focusing on sustainable material selection for different layers of the shoe structure using cradle-to-cradle design approach into the shoe design process. Anchored by our past, navigating our future: Design Exhibition. International Textile and Apparel Association, St. Petersburg, FL. *ESRAP (Educators Socially Responsible Apparel Practices) Design Award
- Lee, K-E., & Lee, Y. A. (October 29, 2016). *The Last of the Teddy Girls – the 1950s Transformable Biker Bag*. Inspired by the concept of transformability, we challenged ourselves to design a transformable biker bag incorporating with wearable technology and sustainability design practices. The 16th International FABI Exhibition: Future Fashion Convergence, Seoul, South Korea.
- Nam, C. & Lee, Y. A. (November 10, 2016). *RETHINK II: Kombucha shoes for Scarlett and Rhett*. Blending Cultures: Design Exhibition. International Textile and Apparel Association, Vancouver, BC, Canada.
- Lee, Y. A., & Nam, C. (June 27, 2015). *Wearable green tea baby shoes*. Creating aesthetically pleasing, biodegradable baby shoes using the cellulose fiber mats color-dyed with the leftover coffee grounds to use this nonwoven material as an alternate future suitable for footwear. The 106th American Association of Family & Consumer Sciences Annual Conference & Expo: Apparel, Textiles & Design Juried Showcase and Exhibition, Jacksonville, FL.
- Lee, Y. A. et al. (November 15, 2014). *Renewable green tea vest*. Exploration of the way to develop renewable biocomposite materials that can be used for developing apparel product, vest under the designer's intention of the harmony among people, prosperity, and the planet. Strengthening the Fabric of our Profession, Association, Legacy and Friendships!: Design Mounted Exhibit. International Textile and Apparel Association, Charlotte, NC.
- Lee, Y. A., & Kwon, G-Y. (October 16, 2013). *I plus nature in a nested society*. Exploration of the use of utility materials to convey the images of our interwoven society and wish for going back to nature, which was inspired by the dynamism of our life in a nested society. Re-generation-Building a forward vision: Design Mounted Exhibit. International Textile and Apparel Association, New Orleans, LA.

SELECTED Refereed Proceedings & Presentations:

- Gibson-Young, L., Lee, Y. A., Salahuddin, M., & Oliver, G. (2021). Needs assessment of current personal protective equipment for healthcare workers, *2021 American Association of Nurse Practitioners (AANP) National Conference*, June 15-20, 2021.
- Lee, Y. A., Salahuddin, M., Gibson-Young, L., & Oliver, G. D. (2020). Assessment of current personal protective equipment for healthcare workers, *Virtual Annual Conference of ITAA: Pivoting for the Pandemic*, November 18-20, 2020.
- Lee, Y. A., & Salahuddin, M. (2020). College students' sustainability awareness towards apparel and cotton industries, *International Textile and Apparel Association Annual Conference Proceedings* 77(1). <https://doi.org/10.31274/itaa.11863>
- Salahuddin, M., & Lee, Y. A. (2020). Critical dialogue on the role of clothing care label for controlling microfiber pollution, *Virtual Annual Conference of ITAA: Pivoting for the Pandemic*, November 18-20, 2020.
- Mahmood, N., & Lee, Y. A. (2020). Health monitoring smart clothing: Understanding its acceptance among older adults, *Virtual Annual Conference of ITAA: Pivoting for the Pandemic*, November 18-20, 2020.
- Bakhshian, S., & Lee, Y. A. (2020). Influence of social acceptability and product attributes on consumers' attitude and intention of using smart apparel, *Virtual Annual Conference of ITAA: Pivoting for the Pandemic*, November 18-20, 2020.
- Bakhshian, S., & Lee, Y. A. (2019). Impact of functional-expressive-aesthetic-tracking scale on consumers' perceptions toward using wearable technology. *International Textile and Apparel Association Annual Conference Proceedings*. 76(1). doi: [10.31274/itaa.8786](https://doi.org/10.31274/itaa.8786)
- Seifert, C., *Martindale, A., & Lee, Y. A. (2019). The roles of social acceptance and sustainable identity on young consumers' aesthetic judgments and behavioral responses towards transformable dress. *International Textile and Apparel Association Annual Conference Proceedings*. 76(1). doi: [10.31274/itaa.8428](https://doi.org/10.31274/itaa.8428)
- Nam, C., & Lee, Y. A. (2018). Biomechanical effects of men's dress shoes made with eco-friendly materials, *Conference of ITAA: Re-imagine and the Renewable* in Cleveland, OH, November 6-9, 2018.
- Nam, C., & Lee, Y. A. (2018). Wearers' perception and acceptance of shoes made of eco-friendly materials, *Conference of ITAA: Re-imagine and the Renewable* in Cleveland, OH, November 6-9, 2018.
- Bakhshian, S., & Lee, Y. A. (2018). Holistic integration of product attributes with consumer behavioral aspects for the use of wearable technology, *Conference of ITAA: Re-imagine and the Renewable* in Cleveland, OH, November 6-9, 2018.
- Michel, G., Feori, M., Damhorst, M. L., Lee, Y. A., & Niehm, L. (2018). Exploring sustainability and object attachment with Patagonia apparel: "I love my daughter, I love my son, I love my wife, I love the wilderness, and I love this hat," *Conference of ITAA: Re-imagine and the Renewable* in Cleveland, OH, November 6-9, 2018.
- Taylor, L., & Lee, Y. A. (2017). Case study of zero waste bag design utilizing pre-consumer upholstery fabric waste, *Conference of ITAA* in St. Petersburg, FL, November 14-18, 2017.
- Lee, Y. A., Li, R., & Nam, C. (2016). Consumers' acceptance of sustainable apparel products made of bacterial cellulose material, *Conference of ITAA* in Vancouver, Canada, November 8-11, 2016.
- Chung, D., Baytar, F., Lee, Y. A., Fiore, A-M., & Crawford, D. (2016). Factors affecting the intention to participate in apparel crowdsourcing, *Conference of ITAA* in Vancouver, Canada, November 8-11, 2016.
- Romeo, L., & Lee, Y. A. (2015). Apparel needs and expectations model: A new paradigm of the apparel product development process, *Conference of ITAA* in Santa Fe, NM, November 9-13, 2015
- Ulasewicz, C., Dickson, M., Lee, Y. A., Meyer, S., Pasricha, A., & Hethorn, J. (2015). Embedding socially responsible practices within and across the curriculum: Where we have been and what's next, *Conference of ITAA* in Santa Fe, NM, November 9-13, 2015.
- Murphy, C., Plummer, B., & Lee, Y. A. (2015). Upcycling consignment clothing for sustainably aware consumers, *The 5th International Fiber Recycling Symposium* in San Francisco, CA, June 8-10, 2015.
- Romeo, L., & Lee, Y. A. (2013). A meta-analysis of apparel-related research for plus-size teens, *Conference of ITAA* in New Orleans, LA, October 15-18, 2013.
- Hwang, C., & Lee, Y. A. (2013). Generation Y's attitudes towards apparel labeled with organic, recycled and fair trade, *Conference of ITAA* in New Orleans, LA, October 15-18, 2013.
- Diddi, S., & Lee, Y. A. (2013). Exploratory analysis of sustainability involvements among the apparel companies affiliated with Sustainable Apparel Coalition, *Conference of ITAA* in New Orleans, LA, October 15-18, 2013.
- Zhang, L., & Lee, Y. A. (2013). Wearable onion skins, *Fashion and Social Responsibility Symposium* in St. Paul, MN, April 19-20, 2013.

Professional Memberships: AAFCS, AATCC, ESRAP, GSA, Human Factors and Ergonomics Society, ITAA, Kappa Omicron Nu National Honor Society, KSCT

SELECTED Service to Profession:

- VP of Operations, ITAA (2021-2023)
- Clothing and Textiles Research Journal, Associate Editor of (a) Apparel Science & Technology and (b) Design (current)
- Family & Consumer Sciences Research Journal, Associate Editor of Apparel, Textiles, and Merchandising area (2013-2021)
- Fashion and Textiles, Associate Editor of Apparel Science and Technology Track (current)
- Journal of the Korean Society of Clothing and Textiles (KSCT), Editorial Board (2017-current)

- Fashion and Textiles, Co-Guest Editor of *Special Collection: 3D Printing and Wearable Technology in Fashion*, <https://www.springeropen.com/collections/numeric/3dpwtf> (2016-2018)

SELECTED Honors and Awards:

Auburn University Spirit of Sustainability Award (2021); ITAA VP of Operations (2021-2023); ITAA Paper of Distinction Award (2020-Consumer Behavior Track); ITAA Paper of Distinction Award (2020-Design and Product Development Track); EFI Optitex Award for Excellence in Teaching (2019); ITAA Paper of Distinction Award (2017-Textile/Apparel Science Track); ITAA Paper of Distinction Award (2019-Pedagogy and Professional Development Track); ITAA Service Award (2018); Fashion and Textiles Best Paper Award: Humanities/social sciences area (2018); Best Paper Award in Professional Issues in FCSRJ (2018); ITAA Paper of Distinction Award (2017-Textile/Apparel Science Track); ESRAP Research Award (2017); 2016-2017 ISU Emerging Leaders Academy Cohort; ITAA Mid-Career Excellence Award (2016); Excellence in Reviewing Award for the CTRJ (2016); Outstanding Paper Winner in the 2016 Emerald Literati Network Award; Invited keynote speaker at the TBIS-APCC Joint International Symposium (2016 & 2014); ITAA Paper of Distinction Award (2015-Design/PD Track); EPA P3 Award Winner (2014); EPA P3 Award (2013-2014), US Department of Justice Phase I Body Armor Challenge Award (2013), Wakonse Fellow (2012), ISU College of Human Sciences Faculty Award for Early Achievement in Research (2012); Big 12 Faculty Fellow (2009); ITAA Best Paper Award (2010-Design/PD Track, 2006-Social/Psych Track)