



Karla P. Teel, Ph.D.

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Education

Ph.D., North Carolina State University, 2002, Apparel Technology, *Body Shape Analysis Using Three-Dimensional Body Scanning Technology*

M.A., Auburn University, 1996, Apparel Manufacturing, *An Investigation of Expert Evaluations of Market Turbulence in the Apparel Industry*

B.S., Auburn University, 1992, Textile Engineering, *Survey of Quick Response Systems in the Apparel Industry in Alabama as Compared to Selected Southeastern States*

Summary

Dr. Karla Teel's academic interests include technical design, apparel CAD, and apparel production management. For her research interest, Dr. Teel is considered an expert in the field of 3D body scanning technology where her research has been presented internationally in England, Korea, Egypt, Australia, and Hong Kong. Recent research projects include scale development for tween girls and boys with reference to BMI and puberty in 3D, the Freshman 15 (a longitudinal study of body weight and shape patterns in college students using 3D body scanning), classification and fit preference of men's body shapes, technical aspects of the different 3D body scanners on the market, body image and body size of tween girls and boys and using avatars with 4th & 5th grade children to see the influence on obesity. Prior to joining Auburn in 2005, Dr. Teel worked for two land grant institutions of North Carolina State and University of Missouri. She has co-authored 37 works with 29 of them being peer reviewed, had 77 conference presentations and 13 invited presentations nationally and internationally. She has also received over \$1.5 million in grants for teaching and research.

Selected Publications:

- Rolling, V., Courtney, S., & Teel, K.P. (2024, July). Viewers' sensations: Using skin sensor technology to assess wearable technology *Fashion Style & Popular Culture*, 1-11. DOI: https://10.1386/fspc_00264_1.
- Michaelson, D., Gascon, S., & Teel, K.P. (2024, June). Interdisciplinary approach to designing female posture compression garment. *Fashion & Textiles*, 11(23).) 11:23. <https://DOI.org/10.1186/s40691-024-00389-5>.
- Rolling, V., & Teel, K.P. (2021, November). Beholding: The neuroaesthetic experience of a synesthetic dress. *International Journal of Fashion Design, Technology and Education*, 1-11. DOI: <https://doi.org/10.1080/17543266.2021.2011964>
- Rolling, V., & Teel, K.P. (2021). Perceptions of an Electronic Dress as Fashion, Art, and Costume. *Dress*, 47(2), 167-179. <https://doi-org.spot.lib.auburn.edu/10.1080/03612112.2020.1799568>
- Michaelson, D., Gascon, S., & Teel, K.P. (2020, June). Investigating female athlete's compression garment needs and satisfaction levels. *International Journal of Fashion Design, Technology and Education*, 13(3), 247-255. <https://doi.org/10.1080/17543266.2020.1782481>
- Michaelson, D., Teel, K.P., & Chattaraman, V. (2018). Assessing Rock Climbers' Functional Needs in Climbing Pants. *Clothing and Textiles Research Journal*, 36(4), pp. 235-250. <https://doi.org/10.1177/0887302X187835800>
- Arsiwalla, D.D., Arnold, A.W., Teel, K.P., Ulrich, P.V. & Gropper, S.S. (2018, February). The interactive role of eating regulation and stress in the prediction of weight-related outcomes among college students. *Stress and Health*, 34(1), 59-71. <https://doi.org/10.1002/smi.2760>
- Koo, H., Teel, K.P., & Han, S. (2016). Explorations of design factors for developments of protective gardening gloves. *Clothing and Textiles Research Journal*, 34(4), 257-271. <https://doi.org/10.1177/0887302X16653671>

Selected Refereed Proceedings:

- Rolling, V., Teel, K.P., & Courtney, S. (2023, November). Viewers' sensations: Using skin sensor technology to assess wearable technology. Proceedings of the *International Textile and Apparel Association Conference*, Baltimore, MD. **Nominated for Paper of Distinction.**
- Michaelson, D., Chattaraman, V., & Teel, K.P. (2020, June 18-19). Sun protective apparel: Societal role of preventing skin cancer in children. *Sports & Society*, 11th International Conference. Granada, Spain.
- Michaelson, D., Teel, K.P. & Chattaraman, V. (2019, November). An exploratory study on use of sun protective apparel for children: Parental knowledge, attitudes, role identity, and purchase intentions. *International Textile and Apparel Association Annual Conference Proceedings*, 76(1). <https://doi.org/10.31274/itaa.8303>
- Teel, K.P., & Rolling, V. (2019, November). Beholding: The neuroaesthetic experience of a synesthetic dress. *International Textile and Apparel Association Annual Conference Proceedings*, 76(1). <https://doi.org/10.31274/itaa.88177>
- Michaelson, D., Gascon, S., & Teel, K.P. (2018, November). Are compression garments worth it?: Investigating compression garment functionality and identity in women athletes. *International Textile and Apparel Association Annual Conference Proceedings*, Cleveland, Ohio.

Professional Memberships: [AAFCS](#), [ITAA](#), [ASTM](#), [AAFA](#)

Selected Honors and Awards since 2015:

Paper of Distinction, International Textile and Apparel Association (2024). The Fashion Event. Most Exciting Campus Event: Spring (2024). Top 5 for the Most Exciting Campus Event (2023, 2022), Awarded the Wrangler Professorship in CADS (2018), Graduate School Outstanding Graduate Mentor Award Nominee (2018), University Intramural Grants Program. PI. (2016), Paper of Distinction, International Textile and Apparel Association (2015)