



DAWN M. MICHAELSON, Ph.D.

Assistant Professor in Consumer and Design Sciences

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Education

Ph.D., Auburn University, 2019, Consumer and Design Sciences

M.A., Auburn University, 2015, Consumer and Design Sciences

Summary

Dr. Michaelson's scholarly accomplishments focus on interdisciplinary, intradisciplinary, and industry collaborations with functional apparel mainly in human-centered or user-centered apparel design research. Her research and creative activities are both independent and collaborative that focus on apparel studies affecting (1) individuals with health conditions, such as medical, disabled, adaptive, wearables, (2) recreational or sports apparel, and (3) apparel for those engaged in hazardous occupational or recreational activities. Her overall scholarship, consisting of research and creative activities, focuses on a variety of functional apparel under the framework, "Impactful apparel studies to improve the overall psychological, physiological, and/or physical well-being of individuals." Her creative activities are often derived from her research through product design, construction, and testing of prototype apparel. Prior to joining Auburn University in 2022, Dr. Michaelson worked 3 years at Baylor University (2019-2022) where she was committed to teaching, research, and service. She has co-authored 5 peer-reviewed full-length research papers, 6 juried design exhibits, 1 curated exhibition, and 12 international and national conference presentations. She has been the recipient of 3 internal grants and 2 external grants (Cotton Works, Cotton Inc.) along with receiving awards for creative scholarship and teaching excellence. Lastly, Dr. Michaelson welcomes new apparel challenges and is both passionate in her teaching and research roles.

Selected Publications:

- Agu, D., Eike, R., Cliett, A., **Michaelson, D.**, Cloud, R. & Li, Y. (2021). Investigation of E-textile Dipole Antenna Performance Based on Embroidery Parameters. *Textile Research Journal*, 92(15/16). doi.org/10.1177/00405175211013421
- **Michaelson, D.**, Gascon, S., & Teel, K. (2020). Investigating female athletes' compression garment needs and satisfaction levels. *International Journal of Fashion Design, Technology and Education*, pg. 1- 9. doi.org/10.1080/17543266.2020.1782481
- **Michaelson, D.**, Kim, D-E., & Ha, Y. (2018). Scuba Diver's Use of Selection Criteria for Assessing Wetsuit using FEA Model. *International Journal of Costume and Fashion*, 18(2), pp. 45-64. doi.org/10.7233/ijcf.2018.18.2.045
- **Michaelson, D.**, Teel, K., & Chattaraman, V. (2018). Assessing Rock Climbers' Functional Needs in Climbing Pants. *Clothing and Textiles Research Journal*, 36(4), pp. 235-250. doi.org/10.1177/0887302X18783580
- Koo, H., **Michaelson, D.** & Teel, K. (2016). Design Preferences for Wearable E-Nose System for Diabetes. *International Journal of Clothing Science and Technology*, 28(2), pp.216 – 232. doi.org/10.1108/IJCST-10-2015-0113

Selected Juried Design Exhibition:

- **Michaelson, D.** (2022). *Tulipa 'Rococo' I*. Innovate to Elevate: *Design Exhibition*. International Textile and Apparel Association, Denver, CO
- **Michaelson, D.** (2022). *Waist-up: Inclusively designed women's jacket for the workplace*. Costume Society of America Symposium, *Design Exhibition*, Minneapolis, MN
- **Michaelson, D.** (2021). Performance sports bra for larger busted athletes. *International Textile and Apparel Association Annual Conference Proceedings*, 78(1). <https://doi.org/10.31274/itaa.13533>
- **Michaelson, D.** (2021). Flashy Flamingo: Girl's Sun Protective Apparel with Sensory-Friendly Features. *International Textile and Apparel Association Annual Conference Proceedings* 78(1). doi: <https://doi.org/10.31274/itaa.13534>
- **Michaelson, D.** (2020). Dreng: Women's Compression Performance Apparel. *International Textile and Apparel Association Annual Conference Proceedings* 77(1). doi: <https://doi.org/10.31274/itaa.11880> [Optitex Technology Award – Professional category]

Funded Projects:

- **Michaelson, D.** (2021/2022). Factors impacting the adoption of wearable medical apparel. Baylor University, University Research Committee Award, \$5,000
- **Michaelson, D.**, Divita, L., & Dragoo, S. (2021). Performance Cotton Perks: Producing Performance Apparel for New Markets. Cotton Works, 2021 Cotton in the Curriculum Grant. \$14,600
- **Michaelson, D.** (2020). New ActiveSeam® apparel seam: Testing of three different joining techniques to compare seam performance, comfort, and appearance for performance apparel. Baylor University, Undergraduate Research and Scholarly Achievement, \$3,730

Professional Memberships: International Textile and Apparel Association (ITAA), American Association of Textile Chemists and Colorists (AATCC)

Selected Honors and Awards since 2016:

International Textile and Apparel Association, Optitex Technology Award in Professional Category, (2020)

International Textile and Apparel Association First Place, Rutherford Teaching Challenge (2018).