

# Sarah Megivern

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## EDUCATION

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### University of Delaware, Newark, DE | May 2024

College of Arts and Sciences

Master of Science in Fashion and Apparel Studies

Certificate in Sustainability production

**Cumulative GPA:** 3.80

### University of Delaware, Newark, DE | May 2022

College of Arts and Sciences

Bachelor of Science in Fashion Design and Product Innovation

**Major:** Fashion Design and Product Innovation | **Minor:** Business Administration, Sustainable Apparel Textile Innovation

**Cumulative GPA:** 3.92

## PUBLICATIONS

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- Gorea, A., Cao, H., & Megivern, S. (2024). Towards optimization of sports bra strap design: the role of stitch pattern and stitch length (SL) on the properties of seamless knitted fabrics. *The Journal of The Textile Institute*, 1-11.
- Megivern, S. (2024). Exploratory development and evaluation of a novel hamstring compression sleeve for female NCAA athletes, *Master's Thesis*, University of Delaware

## RELEVANT EXPERIENCE

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### University of Delaware, Newark, DE

September 2023 - May 2024

Graduate Research Assistant

- Conducted research on the optimization of fasteners for individuals with limited motor control
- Conducted over 60 interviews with participants of varying capabilities
- Managed a team of 6 undergraduate research assistants
- Built relationships through effective communication with cross-functional teams at the University of Minnesota

### University of Delaware, Newark, DE

September 2023 - May 2024

Master's Thesis

- Conducted a longitudinal study on the optimization of hamstring compression sleeves for female track and field athletes
- Created a protocol using the scientific method to test the sleeves on 8 female D1 track and field athletes
- Analyzed data using SPSS to analyze and statistically significant findings

### University of Delaware, Newark, DE

September 2022 - May 2024

Graduate Research Assistant

- Conducted a longitudinal study on the optimization compression socks for post-operative ATR patients
- Worked with 18 participants over the course of 2 years to gather data on the effects of custom compression socks
- Conducted various textile testing on the compression socks (MMT, elongation, air permeability) to optimize their customization
- Worked alongside physical therapists and PhD students getting their doctorate in physical therapy

### University of Delaware, Newark, DE

September 2022 - May 2024

Undergraduate Research Assistant

- Conducted research on how the stitch pattern and length plays a role in the optimization of sports bras
- Conducted various textile testing on different fabrics to determine which best contributed to the optimization
- Conducted wear tests on more than 20 participants with varying bra sizes to test the validity of the results

## ADDITIONAL EXPERIENCE

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### NexGen Packaging, Remote

September 2023 - January 2024

Market Research Intern

- Created and managed large datasets within Excel related to the # and type of apparel units imported to the US/UK/EU markets from 2018 to present
- Built a model for market value, and provided estimates on RFID unit penetration by year
- Researched the DPP and US AAFA 2D barcode project, provided analysis for implementation of both
- Determined the financial impact of DPP for existing care label business

### Calvin Klein, New York, NY

May 2021 - August 2021

Men's Knitwear Design Intern

- Worked closely with team to design category-specific product based on design direction given for knits
- Observed presentation techniques and be prepared to make preliminary presentations
- Maintained daily running or classification while designer travels including fit sessions

**University of Delaware, Newark, DE**

September 2022 - May 2024

*Graduate Research Assistant*

- Conducted research on the optimization of fasteners for individuals with limited motor control
- Sewed all 6 prototypes and 13 fasteners used during interviews
- Managed a team of 6 undergraduate research assistants
- Built relationships through effective communication with cross-functional teams

#### **ACTIVITIES AND INVOLVEMENT**

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**NCAA Division I Track and Field team, Newark DE**

September 2019 - May 2023

*Captain*

- Led team in practice, competition, and off-field activities, fostering a culture of accountability and teamwork.
- Competed at the highest collegiate level, demonstrating dedication, resilience, and a strong work ethic.

**University of Delaware Alumni Association, Newark, DE**

March 2020 - May 2022

*VP of Membership*

- Led efforts to recruit, engage, and retain members, growing organization participation by 30%
- Collaborated with the executive board and committees to plan and execute events to connect students and alumni.

#### **SKILLS**

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- Computer: Microsoft Office (Excel, Teams, Word, etc.), Adobe Suite (Illustrator, InDesign, Photoshop, etc)
- Software: Centric, CLO-3D
- Textile testing: Tensile Strength, Air Permeability, MMT, Abrasion testing
- Languages: Mandarin (proficient in reading, writing and speaking)