

# EMILY LACOMBA

Textile Innovation Design

## Experience

### **Responsive Materiality, Thesis Development**

9/2022 - 6/2023

Challenged textile permanence in thesis 'Responsive Materiality' through climate-conscious lens. Integrated dime-sized waterproof sensors detecting darkness, motion, rotation, and heat into flatbed-knit textiles. Created gloves that utilize these sensors, reacting to stimuli through tone buzzing, vibrations, LED illumination, and sound.

### **Woolmark Performance Challenge**

6/2023 - 7/2023

Designed a uniform that enhances athletic performance and promotes circularity using merino wool, a natural resource. Developed material for the Luna Rossa Prada Pirelli team, providing dynamic muscle support tailored to user movement in sailing. Deciphered themes of compression and aerodynamics, creating textiles from laser-cut knit panels hinged over high-strain muscle zones.

### **Patagonia X Colorifix Case Study**

4/2022 - 6/2022

Developed a four-print collection proposal for Patagonia's outerwear lines, designed to be dyed exclusively with Colorifix's sustainable, DNA-based dyeing method. Leveraged Patagonia's corporate responsibility to demonstrate how this innovative process can scale, encouraging industry-wide adoption of lowering emissions zero-carbon practices.

### **Footwear Materials Design**

1/2023 - 6/2023

Engineered knitted uppers and socks for three climbing shoes in Madeline Helt's 'The Window' collection, tailored for extreme outdoor conditions. Innovated material structures for customizable, comfortable footwear. Collaborated cross-functionally with footwear, accessory, 3D print, and fibers teams, focusing on sustainability and circular design principles for lasting impact.

### **Co-Creation Sustainability Workshop**

12/2022

Leveraged research on global sustainability to drive SCAD's School of Fashion towards a sustainability mandate. Presented findings to senior leadership, resulting in immediate compliance, including post-consumer waste stations for fiber scraps and a material donation/take-back cabinet for managing hard-to-recycle waste.

## Contact

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## Education

### **Masters of Science**

**Sports Product Design**

University of Oregon

Sep. 2024-Present

### **Bachelor of Fine Arts**

**Fibers**

Savannah College of Art and Design

*summa cum laude*

2021-2023

## Awards

### **FIT Sport Design Awards**

Material development for three winning prototypes

2023

### **International Design Awards**

Bronze in Accessory Design

2023

### **Global Footwear Awards**

Sock Development for

Footwear Design of the Year

2023

### **Barbara L. Kuhlman Foundation**

Fiber Arts Scholarship

2021-2022 & 2022-2023

### **International Design Awards**

Honorable Mentions in Garment

Concepts, Textile Design, & Sleepwear

2022

### **SCAD Foundations Honors Show**

Second Place in Life Drawing

2021

## Skills

### **Core Competencies**

Verbal and written Communication	Problem solving
Color Theory	Trend Forecasting
Apparel Design	Sustainability Innovation

### **Software**

Photoshop	Procreate
InDesign	CLO-3D
Illustrator	Arduino
Substance	Rhinoceros 3D

### **Technical**

Flatbed Knitting	Dyes/Finishes
Harness Weaving	Print/Graphics
Industrial Sewing	Laser Cutting
Screen Printing	3D Printing