

# SOPHIE NUNNO-GORBACHEV

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Project Management for the textile industry, specifically utilizing garment design, polymer science, and 3D software

## Education

*North Carolina State University; Raleigh, NC*

Ph.D. in Textile Technology Management

*Expected December 2022*

B.S. in Fashion and Textile Management

*May 2019*

Concentration: Fashion Development and Product Management

## Professional Experience

*Research and Development Project Leader/ Hanesbrands Inc.*

*June 2018-*

- Led development of new technologies, with a specialization in innerwear design
- Collaborated with multidisciplinary teams to manage implementation of new products
- Identified innovation opportunities and developed desired product specifications correspondingly
- Modified properties of fabrics to match desired product specifications
- Developed patterns using Lectra Modaris and compiled technical packages for products
- Analyzed technical feasibility of company involvement with new technologies and manufacturing processes

## Research Experience

*The Nonwovens Institute/ NC State University*

*Aug 2019-*

- Researched applications of a elastomers for apparel products
- Studied polymer-polymer interface for the use of fabric modifications
- Designed trials to efficiently test functionality of new technologies
- Created and modified g-code for CNC machinery to optimize cut time
- Optimized production processes and developed cost models for new products

*Textile and Apparel Technology Management/ NC State University*

*August 2017-May 2019*

- Led undergraduate research project to analyze bra design for the larger cup size market
- Studied anatomical issues related to bra use and analyzed the current market for support bras
- Conducted a Qualtrics survey of 794 respondents regarding the relationship between cup size, age, and pain on certain areas of the body and qualitative information regarding effective/ineffective design features in current bras in the marketplace
- Developed an objective test measure for bra support and used it to test various bra features
- Mentored student on design processes, apparel production, and fit requirements

## Skills and Affiliations

<b>Design</b>	Gerber Accumark, Lectra Modaris, Lectra Kaledo, Adobe Illustrator, Adobe Photoshop
<b>Product Development</b>	Process Lifecycle Management (PLM)
<b>3D Printing</b>	Fusion 360 3D Modeling, Slic3r 3D slicing, Cura 3D slicing
<b>Production</b>	Hashima belt press, molding machine, factory sewing machinery
<b>Data Analysis</b>	JMP Statistical Software, Microsoft Excel
<b>Interests and Affiliations</b>	International Textile and Apparel Association, chess, film photography, oil painting

## Presentations

Meeting of the Minds- University of Louisville, Louisville KY, March 29, 2019

The National Conferences on Undergraduate Research (NCUR)-Kennesaw State University, Atlanta, GA, April 11, 2019.

The Textiles Research Open House- North Carolina State University, Raleigh, NC, April 5, 2019

Techtextil North America- the Raleigh Convention Center, Raleigh, NC, February 26<sup>th</sup> & 27<sup>th</sup>, 2019

The Textiles Research Open House- North Carolina State University, Raleigh, NC, April 16, 2018