

# Sonia Chitsaz Charandabi

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## Research Experience

### The Nonwovens Institute / NC State University

Raleigh, USA

#### Research Assistant

Jan. 2020 – present

- Understanding capture mechanisms of hybrid particle loaded nonwovens.
  - Investigation of the interaction between the nonwoven web structures and particle properties.
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## Education

Ph.D., Fiber and Polymer Science | North Carolina State University

expected Dec. 2022

MPS., Fashion Merchandising & Retail Management | LIM College, New York

Aug. 2017

M.S., Chemical Engineering | University of Manchester, England

Sept. 2013

B.S., Textile Chemistry, and Fiber Science | Amirkabir University of Technology, Iran

May. 2012

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## Professional Experience

### MANN+HUMMEL Group

Raleigh, USA

#### Advanced Development Intern

May. 2019 – Sept. 2019

- Conducted product, technology, and market research on paper industry filtrations.
- Collaborated with lead engineers to provide support on ongoing projects.
- Worked closely with the development team to deliver technical research and ran study phase projects.

### ITOCHU Prominent USA LLC

New York, USA

#### Fabric Manager Assistant

Oct. 2017 – May. 2019

- Managed fabric development and bulk orders through vendor liaison.
- Contributed with SGS and Intertek organizations to ensuring quality and color standards.
- Reported development, supply, and demand financial reports in sales meetings.
- Leveraged PLM software to monitor orders and increased production speed.
- Liaised with customers such as Peerless, PVH, and Ralph Lauren to resolve fabric development and bulk issues.

### Chit Textile Company

Tehran, Iran

#### Textile Product Developer

Oct. 2013 – July. 2016

- Co-lead research team to investigate new methods of finishing; antibacterial, water-resistant, and Nano products.
  - Managed laboratory to conduct textile tests regarding new orders such as dyeing, finishing, and printing.
  - Executed comprehensive market research to identify areas of innovation in domestic textiles.
  - Interfaced with customers to distinguish market trends and implement solutions to improve internal processes.
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## Professional Skills

*Software:* MATLAB, Illustrator, ChemDraw, PLM, Corel Draw, Microsoft Office.

*Technical:* Near Infrared Spectroscopy (NIR), Fourier Transform Infrared Spectroscopy, Mass Spectroscopy Imaging (MSI).

*Languages:* English (proficient), Persian (native), Turkish (beginner).

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## Publications

- **S.Chitsaz Charandabi**, H.Aghabeyg Aghabeyg “Analysis of the International and Domestic Textile Commercialization Trend” 3rd National Conference of Industries and Universities Interactions, 2016, Iran
- A.Behroudj, **S.Chitsaz Charandabi**, M.Montazer “In Situ Synthesis of Nano Silver and Desizing of Sized Cotton Fabric” 7<sup>th</sup> International Conference Nanosmat, 2012, Czech