

Education

North Carolina State University | *Raleigh, NC* | *Since Aug 2024*

Ph.D. Student in Fiber and Polymer

Supervisors: Dr. Raoul Farer and Dr. Behnam Pourdeyhimi

Amirkabir University of Technology (Tehran Polytechnic) | *Tehran, Iran* | *2021 - 2024*

M.Sc. in Textile Engineering: Textile Technology Concentration

GPA: 4.0/4.0 - Class Rank: 1st

Amirkabir University of Technology (Tehran Polytechnic) | *Tehran, Iran* | *2013 - 2018*

B.Sc. in Textile Engineering: Textile Chemistry and Fiber Science Concentration

Publications

- **N. Karimian Ardestani** et al. '*Urban mining and artificial intelligence: Challenges and opportunities*', In A. Razmjou & M. Asadnia (Eds.), *Artificial Intelligence in Future Mining*, Elsevier, 2025.
- **N. Karimian Ardestani**, M. Montazer, F. Rostampour, RMA. Malek, '*Fabrication of ZnO nanolayer through electrospinning for discoloration of acid and basic dyes*', The 13th National Textile Engineering Conference, 2023, Amirkabir University of Technology, Tehran, Iran.

Research Experiences

- **Conductive Knitted Fabric Electro-Mechanical Properties - M.Sc. thesis**
Amirkabir University of Technology | *Tehran, Iran* | *2022 - 2024*
 - **Design and Modeling of Temperature-Responsive Fabric**
Rahneshan Competition | *Tehran, Iran* | *2021- 2022*
 - **ZnO Nanoweb Fabrication for the aim of Discoloration from Wastewater - B.Sc. thesis**
Amirkabir University of Technology | *Tehran, Iran* | *2016-2018*
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Internship

- **Internship at Iran Tire Co.** | *Tehran, Iran* | *Summer 2017*

Teaching Experiences

- **Teaching Assistant of Experimental Design & Statistical Research Methods for Graduate Students**
Amirkabir University of Technology | *Tehran, Iran* | *2022-2023*
 - Designing a comprehensive collection of course-related exercises with answers
 - Creating and instructing part of course materials, answering questions and managing assignments
 - **Tutor of High School Courses** (Chemistry, Physics, Mathematics and Algebra)
Tehran, Iran | *2014 - 2017*
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Honors

- Winner of Rahneshan Competition in design and modeling of temperature-responsive fabric (2021-2022)
- Tuition waiver (Bachelor and Master's studies)
- Ranked in top 2% in the Iranian University Entrance Exam (5252 out of 251,956 participants) in 2013
- Ranked 1st Among Master Students in My Class

Skills

- Lab Machines: Needle-based and Needleless Electrospinning, Piezoelectric, Knitting and Weaving
- Computer: Python, MATLAB, Minitab, Microsoft Office, EndNote, Adobe Photoshop