

Tomik Moradi

tmoradi@ncsu.edu | +1 818-940-4051

Raleigh, NC 27607 <http://linkedin.com/in/tomikmoradi>

Professional Experience

American Environmental Testing Laboratory (AETL)

Burbank, California

Analytical Chemist

Sep. 2015 – Aug. 2018

- Maintained, analyzed and reported statistical data for various environmental samples
- Operated analytical instruments such as GC-FID and GC-MS
- Validated and verified results through calibration and standardization
- Defined samples and prepared for preferred concentration
- Communicated the results and conclusions to other scientists

Mersedeh Textile Company

Tehran, Iran

Technical Specialist and Quality Engineer

Oct. 2010 – Feb. 2015

- Collaborated with company leadership to execute stringent quality control on raw materials and coordinate textile programs.
- Assessed & refined production processes and drive continual refinement of manufacturing activities.
- Skillfully conducted color-matching operations in laboratory and managed dyeing machine processes.
- Developed, instituted & maintained company textile database and performed verification testing on materials.
- Prepared dyes color and ensured appropriate formulation of dyestuffs, auxiliaries & chemical materials.
- Performed comprehensive research on dyestuffs and various dyeing methodologies.

Research Experience

The Nonwovens Institute / NC State University

Raleigh, NC

Research Assistant

Aug. 2018 – present

- Studying the effect of stabilizer on reclaim processing of mono and bicomponent fibers
- Computational study on reclaim/virgin polymers blend morphology in the melt phase
- Assessing the effect of reclaim on rheology and morphology of blend fibers
- Stabilizing the spinning process using high reclaim content: PP and PP/PE bico fibers
- Understanding reclaim behaviors in melt phase

Education

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

expected Dec. 2021

M.S., Textile Engineering-Textile Chemistry and Fiber Science | Tehran Polytechnic

Dec. 2008

B.S., Textile Engineering-Textile Chemistry and Fiber Science | Azad University

June 2006

Patent

Patent Assignee (#A/85-004022-Feb 2010) - *Production of Immiscible Biconstituent Polypropylene & Polyethylene Fibers for Increasing Bonding Ability of Nonwoven Fabrics in Thermal Bonding Process.*

Skills and Interests

Computer: TRIOS, SPSS, ChemStation, Microsoft Office.

Technical: DSC, SEM, Rheology, Polymers Compounding, Optical Microscopy, textiles dyeing & finishing, Color Matching, Gas Chromatography (GC-FID and GC-MS), Lean Six Sigma.

Languages: Armenian (native), Persian (fluent), English (proficient).

Interests and Affiliations: Hiking, Workout, History, Photography; member of SPE, ACS and AATCC.

Conference Presentations, Trainings and Additional Experiences

- RISE Technical Conference 2019 (Poster)

Raleigh, NC