

YANG YU

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Research Experience

The Nonwovens Institute / NC State University

Raleigh, NC

Research Assistant

Aug. 2016 – present

- Investigate process-structure-property relationship of meltblown nonwoven fabrics (elastomeric).
- Functionalize nonwoven fabrics by surface modification to produce high performance ion exchange media.
- Determine the effective reaction condition for functionalization of nonwoven fabrics made of selected material.
- Study the adsorption isotherm and kinetics of the ion exchange nonwovens for water filtration.

Textiles Engineering and Chemistry Science / NC State University

Raleigh, NC

Research Assistant

Jun. 2015 – May. 2016

- Effectively dissolved cellulose and gluten in a new solution, used the dissolved solution to make membranes/films which is 100% biodegradable.
- Studied physical properties which showed good elongation and tensile strength.
- Evaluated opportunities of the membranes for medical use or food coverage.

Education

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

expected Dec.2019

M.S., Textile Engineering | North Carolina State University

Aug. 2014 - May. 2016

B.S., Textile Engineering | Jiangnan University, China

Jun. 2014

Skills and Interests

Computer: TRIOS, JMP, Python (beginner), Microsoft Office.

Technical: DSC, SEM, FTIR, physical property testing of nonwovens, design of experiments for nonwoven fabrics, troubleshooting in textile production, Lean Six Sigma.

Languages: English (proficient), Chinese (native).

Interests: Cooking, Basketball, Traveling, Music, Reading, Rock Hunting.

Conference Presentations

- Nonwoven Institute Industrial Advisor Board Conference (May and Nov) poster
○ Oral presentation 2016-Present
Nov. 2017, May. 2018
- Textile Research Open House May. 2018
- INDA RISE (Research, Innovation & Science for Engineered Fabrics”) poster 2017-2019

Award & Honors

- Certificate of “Nonwoven Science and Technology” Dec. 2017
- “The Best Project” of the Fourth Forum of Student Innovation of Jiangnan University Jun. 2014
- “The Best Team” of the Fourth Forum of Student Innovation of Jiangnan University Jun. 2014
- Vice chairman of the Student Union of College of Textiles in Jiangnan University. 2013-2014