

Gen Li

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RESEARCH EXPERIENCE

University of Illinois at Chicago

Graduate Research Assistant

July 2017 - present

- ♦ Modeling of hydroentanglement process, theoretically/numerically and experimentally.
- ♦ Numerical modeling of two-phase flow in OpenFOAM: droplet motion in electrical fields.

Graduate Teaching Assistant

July 2017 - Dec 2018

- ♦ Assist with fluid mechanics lecture for undergraduate students.
- ♦ Check homework and exams.

Research Specialist

June 2017 - Aug 2017

- ♦ Contribute to the ongoing effort to develop a computational tool for the simulation of complex flows.
- ♦ Specifically focus on the analysis and optimization of OpenFoam solver for aeronautical applications.

Computer Specialist

Sep 2016 - May 2017

- ♦ Worked in computer labs to help students with any software problems came from SolidWorks, Fluent and etc.

EDUCATION

- ♦ University of Illinois at Chicago, Chicago, IL, USA

Ph.D. Mechanical Engineering

Expected December 2021

- ♦ University of Illinois at Chicago, Chicago, IL, USA

M.S. Mechanical Engineering

May 2017

- ♦ Tongji University, Shanghai, China

B.E. Mechanical Engineering

June 2016

PUBLICATIONS

1. **G. Li**, C. Staszal, A. L. Yarin, B. Pourdeyhimi. Hydroentanglement of polymer nonwovens. 1: Experimental and theoretical/numerical framework. *Polymer* 164, 191–204 (2019).
2. **G. Li**, C. Staszal, A. L. Yarin, B. Pourdeyhimi. Hydroentanglement of polymer nonwovens. 2: Simulation of multiple polymer fibers and prediction of entanglement. *Polymer* 164, 205–216 (2019).
3. **G. Li**, A. Sankaran, A. L. Yarin, B. Pourdeyhimi. Hydroentangled polymer nonwovens: Prediction of jet streaks and surface roughness. *Polymer* 180, 121731 (2019).

SKILLS & INTERESTS

- ♦ Characterization: SEM (scanning electron microscopy), Uniaxial tension and compression (Instron machine).
- ♦ Computer: C++, OpenFOAM, Fortran, MATLAB, SolidWorks, AutoCAD, Microsoft Office, Origin Pro,
- ♦ Languages: Chinese (native language), English.
- ♦ Interests and Affiliations: Movies, pet lover, video games; Member of ASHRAE, UIC chapter

HONORS & AWARDS

- ♦ Faydor Litvin Graduate Award (July 2019)
- ♦ Best Paper for Technical Merit Award for IAB meeting (May 2019)
- ♦ Outstanding Graduates of Tongji University (May 2016)
- ♦ Tongji Scholarship of Excellence (Aug 2015)
- ♦ Baltimore Aircoil Company Scholarship (July 2015)