WENSHUO ZHANG

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Professional Experience

United States Gypsum Corporation June 6th-August 19th

Internship, Transmission Loss and STC Prediction Tool Using Machine Learning.

Research Experience

University of Illinois at Chicago

Graduate Research Assistant

- University of Illinois at Chicago (Supervisor: Dist. Prof. Alexander L. Yarin).

Graduate Teaching Assistant

- Introduction to Computer-Aided Design, ME447: Fall 2015
  Instructed computer-aided design utilizing the SolidWorks platform.
- Fluid Mechanics, ME211: Spring 2017
  Instructed the fluids laboratory section of the class.
- Introduction to Thermodynamics, ME205: Fall 2017
  Grading assistant and tutor.
- Numerical Method of Mechanical Engineering, ME428: Fall 2019
  Grading assistant and tutor.

Education

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

Ph.D. Mechanical Engineering December 2019

Thesis: Experimental and Theoretical Investigation of Heat and Mass Transfer Processes in Porous Media

- **Illinois Institute of Technology, Chicago, IL, USA**

M.S. Chemical Engineering May 2015

- **Southwest Petroleum University, Chengdu, China**

B.S. Chemical Engineering June 2013

Thesis: Flowing behavior of non-Newtonian fluid in Porous Media

Skills and Interests

Research interests include the following subjects:

- Adsorption/ desorption of porous materials: sand, clay, soils
- Polymer nonwoven fabric, nanofiber applications, boiling heat transfer, forest fire propagation

Special expertise in the following areas:

- Data analysis, machine learning
- Characterization: Scanning electron microscopy, Instron machine.
- Software programs: SolidWorks, Microsoft Office, Origin Pro, Techplot, ImageJ, Image Pro Plus
- Simulation: MATLAB, Absoft Tools

Conference Presentations, Trainings and Additional Experiences

- **W. Zhang**, E. Zussman, A. L. Yarin, "Sensing underground gas release", Korea University and University of Illinois at Chicago International Workshop. Chicago, Illinois (April 2017; July 2018)
- **W. Zhang**, A. L. Yarin, B. Pourdeyhimi, "Bonding area/pattern that affect the properties of nonwovens: Experiments and modeling. Bi-annual industrial board research review meetings at The Nonwoven Institute. Rayleigh, North Carolina (November 2017; May 2018; November 2018; May 2019).