

Wenzhe Li

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EDUCATION

University of Illinois at Urbana-Champaign, IL August 2015-Present
M.S. in Mechanical Science and Engineering

University of Illinois at Urbana-Champaign, IL November 2014-June 2015
Visiting scholar in Mechanical Science and Engineering

Xi'an Jiaotong University, China Graduation: July 2014
B.S. in Energy, Power System and Automation
GPA: 85.9%

RESEARCH EXPERIENCES

- Refrigerants distribution in the Brazed Plate Heat Exchanger April 2015-Present
Research Assistant, Advisor: *Prof. Predrag S. Hrnjak* *Air Conditioning and Refrigeration Center, UIUC*
- Research on the single phase/two phases refrigerants distribution in the Brazed Plate Heat Exchanger
- Heat pump water heater November 2014-Present
Research Assistant, Advisor: *Prof. Predrag S. Hrnjak* *Air Conditioning and Refrigeration Center, UIUC*
- Simulation and experimental study on the performances of the heat pump water heater
- Micron-/nanoparticle flow and deposition in the narrow channel March 2014-October 2014
Research Assistant, Advisor: *Assoc Prof. J. Wen* *Dept. Refrigeration and Cryogenic Engineering, XJTU, China*
- CFD simulation of the fine particles flow and deposition in the narrow channel
- Theoretical and experimental study of the surface tension of refrigerants and their mixture July 2012-March 2014
Research Assistant, Advisor: *Assoc Prof. S. Bi* *Dept. Thermal Fluid Science and Engineering, XJTU, China*
- Theoretical prediction for the surface tension of refrigerants and their mixtures based on the principle of corresponding states
- Developed a portable surface tensiometer using the maximum bubble pressure method

RESEARCH AREAS

- Air conditioning and refrigeration systems
- Heat transfer process and devices

SKILLS

- Computer skills: Programming : EES, Labview, Matlab, C
Software: AutoCAD, Gambit, ICEM, ANSYS Fluent
- Language skills: English (skilled), Chinese (native)

AWARDS & HONORS

- **Scholarships:**
Xi'an Jiaotong University "Si Yuan" Scholarship 2013
"Shen Yuan" Compressor Scholarship 2012
National Encouragement Scholarship 2011
- **Honors :**
"Excellent Student" Award 2012