

# ZHIXIA LI

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## Education

- **University of Illinois at Urbana-Champaign, Urbana, IL USA**  
Department of Nuclear, Plasma, and Radiological Engineering  
*Ph.D. student* 08.2016-  
Advisor: Yang Zhang
- **University of Science and Technology of China**  
School of Nuclear Science and Technology  
*Bachelor of Engineering* 06.2016

## Research Interests

- Redox flow battery; Ionic liquids; Atomistic simulation; Neutron and X-ray scattering experiment

## Research Experience

- Master's Degree Research: 11.2016-present
- Performed neutron scattering, x-ray scattering and differential scanning calorimetry experiments to understand the mechanism of the increasing viscosity in redox flow battery
  - Performed molecular dynamic simulations to study the structure and dynamics of ionic solution and compare to neutron scattering experiments conducted at HFBS/DCS at NIST

### Neutron and X-ray Scattering Experiments

- Neutron scattering experiments about ionic solution at HFBS (12/2016), NIST Center for Neutron Research (NCNR), National Institute of Standards and Technology (NIST)
- X-ray diffraction and Small Angle X-ray scattering experiments at UIUC (12/2016)
- Neutron scattering experiments about ionic liquids at HFBS/DCS/SANS (06/2017), NIST Center for Neutron Research (NCNR), National Institute of Standards and Technology (NIST)

### Neutron and X-ray Scattering Summer School

- Learned methods and applications of neutron spectroscopy at NCNR, NIST

## Honors & Awards

- Graduate  
N/A
- Undergraduate  
Guo Morou Scholarship (the highest honor for undergraduate in USTC) 09.2015  
Honorary Rank of Being in the Top 5% of Grade 2012 USTC Undergraduates 11.2015  
Outstanding Student Leader of SNST, USTC 09.2015

Scholarship of Institute of Modern Physics, Chinese Academy of Sciences 09.2014  
Second Prize Scholarship of China General Nuclear Power Group(CGNPC) 09.2013