

Yuanheng Wang

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EDUCATION

Stanford University 2019 – Present
Ph.D., Theoretical Chemistry

University of Illinois, Urbana-Champaign (UIUC) 2017 – 2019
B.S., Chemistry GPA: 4.00/4.00

Fudan University 2015 – 2016
Major in Chemistry GPA: 3.67/4.00

RESEARCH EXPERIENCES

Stanford University, Martinez Group

Graduate Researcher 2019 – Present

- Improving Ab Initio interactive molecular dynamics (IMD) simulations, utilizing the Unity game engine, haptic controllers, and VR HMDs
 - Developing undergraduate and high-school curriculums for chemistry using IMD simulations
- Assistant system administrator for a HPC cluster

University of Illinois, Urbana-Champaign, van der Veen Group

Undergraduate Researcher 2018 – 2019

- Simulation and analysis of ultrafast X-ray absorption spectra of quantum dots
- Modeling of the thermal and optical properties of quantum dots

University of Illinois, Urbana-Champaign, van der Donk Group

Undergraduate Researcher 2017

- Lantipeptide synthesis, purification and characterization

PRESENTATIONS

ORAL PRESENTATIONS

Wang, Y.; Gentle, C.; Haddock, T.; Dykstra, C.; Cornelius, R.; al Haddad, A.; Tu, M.; Doumy, G.; March, A. M.; van der Veen, R. Internal structure, band alignment and charge transfer dynamics of ZnTe/CdSe core/shell quantum dots. 3rd Annual ECI ACS Undergraduate Research Conference, UIUC, IL, November 2018.

PUBLICATIONS

1. Gentle, C; Wang, Y.; Haddock, T. N.; Dykstra, C. P.; van der Veen, R. M. Internal atomic-scale structure determination and band alignment of ii-vi quantum dot heterostructures. *J. Phys. Chem. C* **2020**.

HONORS

Worth H. Rodebush Scholarship, UIUC 2018

Peter Beak Scholarship for Undergraduate Research, UIUC 2018

Fudan University Excellent Undergraduate Students Scholarship, Fudan University 2015

TEACHING EXPERIENCE

Stanford University

Teaching Assistant

2019 – Present

- Chemistry 31M: Chemical Principles: From Molecules to Solids
- Chemistry 176: Spectroscopy Laboratory

Outreach Opportunities

- Stanford Splash Fall 2019 C7382: Learning Chemistry with Virtual Reality