



JIAYI TIAN



PROFILE

I am currently a master student in chemistry major who wants to apply for PhD program in chemistry. I am seeking to have a chance to further study and do researches at physical chemistry and biochemistry related field, where I can apply my knowledge and skills for continuous improvement.

HONORS & AWARDS

- Awarded title of Outstanding Volunteers at Student Health Center

CONTACT



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EDUCATION



University of California, Santa Barbara

2013-2017

Major in Biochemistry (B.S.)

Minor in Professional Writing

University of Michigan, Ann Arbor

Expected 2018

Chemical Science (M.S.)

RESEARCH EXPERIENCE



Sep 2017 - Present

RESEARCH ASSISTANT, PHYSICAL & ANALYTICAL CHEMISTRY

Professor Zhan Chen's lab, University of Michigan

- Collect spectra data by using sum frequency generation (SFG) spectroscopy to study material interface
- Computation approach to visualize the interference between protein/peptides with certain surface



Jun 2016 - May 2017

RESEARCH ASSISTANT, NANO-MATERIAL CHEMISTRY

Professor Galen Stucky's lab, UC Santa Barbara

- Synthesize Ag@TiO₂ nanowire with high conductivity and optical transparency.
- Operate analysis instruments: IR, NMR, MS, spectrometer, chromatography; optical instruments: compound, fluorescence microscope and SEM; biochemical instruments.



Sep 2016 - Jun 2017

BIOCHEMISTRY & BIOPHYSICS LAB

With Professor Kahn, UC Santa Barbara



Jun 2015 - Nov 2015

RESEARCH ASSISTANT, COMPUTATION CHEMISTRY

Professor Donald Aue's lab, UC Santa Barbara

- Use computation programs to build molecules and calculate the energy of molecule's transition state
- Linux commands and simple coding
- Apply Mathematica to analyze experiment data.



Mar 2015 - Jan 2016

ORGANIC CHEMISTRY LAB

With Professor Gainer, UC Santa Barbara

PUBLICATIONS

The Synthesis of Silver Nanowire at Titanium Dioxide with High Transparency and Conductivity

Binghui Wu, Tracy Truong, Jiayi Tian, Galen Stucky (expected)

Molecular Interactions Between Proteins and Graphene Surface

Shuai Wei, Jiayi Tian, Xingquan Zou, Zhan Chen (expected)