

Michael Lostica

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Education

- Stanford University** — Stanford, CA *2020-Present*
Ph.D. in Theoretical Chemistry
- University of California (UC), Berkeley** — Berkeley, CA *2017-2020*
Degree: B.S. in Chemistry
GPA: 3.71/4.00
- Solano Community College** *2014-2017*
Transfer student
GPA: 3.94/4.00

Research Experience

- Stanford University, Dept. of Chemistry** — Stanford, CA *2020-Present*
Graduate Research Assistant
Orbital localization methods, GPU computing
Advisor: Todd Martínez
- UC Berkeley, College of Chemistry** — Berkeley, CA *2018-2020*
Undergraduate Research Assistant
Optoelectronic properties of semiconducting nanocrystals
Advisor: Eran Rabani
- Brandeis University, Dept. of Chemistry** — Waltham, MA *Summer 2017*
Materials Research Science and Engineering Student
Enzyme instructed self-assembly of peptides in hydrogels
Advisor: Bing Xu
- UC Davis, Dept. of Medical Microbiology and Immunology** — Davis, CA *2015-2017*
Lab Volunteer
Immune responses of rhesus macaques with mutant IL-17 genes
Advisor: Dennis Hartigan-O'Connor

Publications and Presentations

Justin C. Ondry, John P. Philbin, **Michael Lostica**, Eran Rabani, A. Paul Alivisatos. Colloidal Synthesis Path to 2D Crystalline Quantum Dot Superlattices. *ACS Nano* 2021, 15, 2, 2251-2262

Justin C. Ondry, John P. Philbin, **Michael Lostica**, Eran Rabani, A. Paul Alivisatos. Resilient Pathways to Atomic Attachment of Quantum Dot Dimers and Artificial Solids from Faceted CdSe Quantum Dot Building Blocks. *ACS Nano* 2019, 13, 22, 12322-12344

Michael Lostica, Jie Li, Bing Xu. The Enzyme Instructed Self-Assembly of a Phosphorylated Heptapeptide. Poster session presented at Brandeis Scifest in August 2017 and at the American Biomedical Research Conference for Minority Students in November 2017

Awards and Scholarships

Honorable Mention, National Science Foundation Graduate Research Fellowship	<i>2020</i>
Thermo Fisher Scientific Scholarship — UC Berkeley	<i>2018-2020</i>
John H. and Elliot H. Wheeler Scholarship — UC Berkeley	<i>2019-2020</i>
Anselmo J. Macchi Engineering and Science Scholarship — UC Berkeley	<i>2018-2019</i>
Shantha A. Ubhaya Memorial Undergraduate Scholarship — UC Berkeley	<i>2018-2019</i>
Sierra Club Scholarship — Solano Community College	<i>2017-2018</i>
California Teachers Association Scholarship — Solano Community College	<i>2017-2018</i>

Teaching Experience

Teaching Assistant — Dept. of Chemistry, Stanford University *2020-Present*

- Chemistry 31M: Chemical Principles: From Molecules to Solids
- Chemistry 174/274: Electrochemical Measurements Lab
- Chemistry 33: Structure and Reactivity of Organic Molecules

Tutor — Tutor Doctor, A Tree of Knowledge, and Solano Community College *2014-2017*

- Tutored math, chemistry, and physics for various organizations
- Students' academic levels ranged from the 3rd grade to community college
- Helped students improve letter grades in AP Calculus and Introductory Chemistry

Technical Skills

Primary Programming Languages: C, Python

Compute Skills: bash terminal, tcsh terminal