

Mikayla Tan

720 Hilgard Ave. #112 Los Angeles, CA 90024

email: mikaylatan@chem.ucla.edu

Education

University of California Los Angeles, Los Angeles, CA

Fall 2018 – Present

Chemistry Graduate Program

Area of Specialization: Chemical Biology

GPA: 3.38

Saint Mary's College of California, Moraga, CA

Fall 2014 – Spring 2018

Major: Chemistry; Minor: Mathematics

Summa Cum Laude

Cumulative GPA: 3.959; Chemistry GPA: 3.973; Mathematics GPA: 4.000

Publications

Smaligo, A. J.; Swain, M.; Quintana, J. C.; Tan, M. F.; Kim, D. A.; Kwon, O. "Hydrodealkenylative C(sp³)–C(sp²) bond fragmentation" *Science* **2019**, *364*, 681–685.

Research Experience

NSF ChemEnergy REU Program – University of California, Davis

Summer 2017

Synthesis of a Model Compound for Lignin and Investigating Catalysts for Depolymerization

- Successfully synthesized a model compound for lignin depolymerization processes
- Developed several reaction conditions that showed effective results for depolymerization
- Presented at REU Poster Session and Saint Mary's School of Science Undergraduate Research Poster Session
- Submitted abstract to present at the 225th ACS National Meeting in New Orleans Spring 2018

School of Science Summer Research Program – Saint Mary's College of California

Summer 2016

Evaluating the Importance of Salt Bridges in the Hinge-Bend Conformation of Neurolysin

- Re-expressed and purified different versions of the mutant neurolysin enzyme
- Developed a new method to monitor quenched-fluorescence based activity assays
- Presented at Saint Mary's School of Science Undergraduate Research Poster Session

Other Honors Research Projects

- Honors Senior Thesis: *Undergraduate Lab Development: Emphasis on Green Chemistry* Fall 2017
- Honors Contract: *Calibration of Pulsed-Field Gradient NMR with Network Polymer* Spring 2017
- Honors Contract: *Synthesis and Spectroscopy of Conjugated Pi Systems* Spring 2016

Employment History

Teaching Assistantship – University of California, Los Angeles

Fall 2018 – Present

- Chemistry 30BL Organic Chemistry Laboratory I
- Chemistry 20L Introductory Organic Chemistry Laboratory

Living Learning Community Science Mentor – Saint Mary's College of California

Fall 2016 – Spring 2018

- Advised first-year science students about classes during weekly office hours
- Organized science-related hall events with the other LLC science mentors

Chemistry Tutor – Saint Mary's College of California

Spring 2016 – Spring 2018

- Tutored General Chemistry, Organic Chemistry, and chemistry for Health Science majors.
- Met students for individual and/or group tutoring to assist with practice or homework problems

General Chemistry Lab Teaching Assistant – Saint Mary's College of California

Fall 2015

- Attended weekly meetings to become familiar with lab experiments and set up demonstrations
- Supervised students during lab experiments

Additional Experience

Honors Commissioner for Saint Mary's Honors Program

Fall 2015 – Spring 2018

- Currently serving as the Senior Executive Commissioner
- Served two years as a Recruitment Commissioner with the duty of organizing Honors events
- Attended the Annual National Collegiate Honors Council in Atlanta, Georgia Fall 2017

Member of Saint Mary's Chamber and Glee Choir

Fall 2014 – Spring 2015

- Performed at Carnegie Hall in Spring 2015

Honors And Awards

Member of Phi Kappa Phi – Ranked in the top 10% of graduating class

Spring 2017 – Spring 2018

Clare Boothe Luce Scholarship

Fall 2016 – Spring 2018

RA Scholarship Award (LLC Science Mentor)

Fall 2016 – Spring 2018

Robert W. and Beverly J. Summers Scholarship

Summer 2016

Member of Saint Mary's College of California Honors Program

Spring 2015 – Spring 2018

- Maintained 3.5 or higher GPA during first semester

Honors Entrance Scholarship

Fall 2014 – Spring 2018

Presidential Scholars Program

Fall 2014 – Spring 2018