

J. A. Mikerina

Aspiring researcher

✉ jmikerina@ucsd.edu

☎ 530 760 5000

I am an enthusiastic undergraduate student eager to join with a lab and develop my skills and abilities in the practical aspects of research. I have previously worked in a lab and have been very successful in lab courses that I have taken at Sacramento City Community College and UC San Diego.

Experience

● Lin Tian Optical Neurophysiology Lab, UC Davis

2017 - 2018

- Followed a post doc in her research and learned about various Molecular and Biochemical techniques.
- Worked with *E. coli*, including purification and culturing.
- Worked with experimental mice, including observing surgeries and assisting with care.

● BIBC 103: Biochemical Techniques with Aaron Coleman

Winter 2022

- Extracted an enzyme from animal tissue and used various techniques in order to purify it and determine its activity level and specific isozyme.
- Worked with *D. melanogaster* in order to extract and purify various enzymes and determine level of activity in different environments.
- Examined sea urchin fertilization and studied biochemical processes and proteins required for successful fertilization.

Education

● UC San Diego

2022-2024

- Molecular and Cell Biology, B.S.
- GPA: 4.0

● Sacramento City College

2019-2022

- GPA: 4.0

Skills

- Plasmid purification
- Gel electrophoresis
- SDS-PAGE
- Affinity and size exclusion chromatography
- Western blotting and immunodetection
- ELISA
- Working with lab equipment (microscopes, centrifuges, and spectrophotometer)
- Titration and Pipetting
- Keeping a lab notebook
- NMR, IR, and mass spectroscopy