

# Grace Jacobson

☎ (503) 880-1519 | ✉ gejacobs@ucsc.edu | 🏠 gracej.info | 📱 gracejacobson

## Education

### University of California, Santa Cruz

B.S. IN MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY

*Santa Cruz, CA*

*Sep. 2018 - Jun. 2021*

- Upper division courses include Computational Biology Tools and Research Programming in Python.

## Experience

### AnaptysBio

*San Diego, CA*

RESEARCH ASSOCIATE II, COMPUTATIONAL BIOLOGY

*Aug. 2022 - PRESENT*

- Created and optimized next-generation sequencing pipelines for antibody repertoire analysis.
- Assisted data migration to Benchling cloud-based platform and improved various workflows via Benchling API.
- Summarized and presented findings at departmental and project meetings.

RESEARCH ASSOCIATE I, MOLECULAR BIOLOGY

*Aug. 2021 - Jul. 2022*

- Cloned antibodies and their mutational variants using Gibson Assembly and single-site mutagenesis techniques.
- Optimized DNA extraction protocol for Maxiprep kits and updated quality control report methods.

### University of California, Davis

*Davis, CA*

BIOTECHNOLOGY INTERN, MICHELMORE LAB

*Jan. 2017 - May 2017*

- Discovered marker for QTL analysis of resistance genes to downy mildew in lettuce.
- Awarded Monsanto scholarship for presenting findings from the internship experience.

## Skills

### Computational

Python, R, SQL, HTML/CSS/JavaScript, Unix command line, Git version control, UCSC Genome Browser

### Experimental

Molecular cloning (Gibson Assembly), site-saturation mutagenesis, PCR, DNA extraction and purification

## Extracurricular Activities

### Barrio Logan College Institute

*San Diego, CA*

VOLUNTEER TUTOR

*Nov. 2022 - PRESENT*

- Tutored 10-15 middle school students weekly in math, science, history, and English.
- Tracked student progress to ensure first-generation, low-income individuals received proper support to succeed.

### alpha Kappa Delta Phi, Delta Chapter

*Santa Cruz, CA*

ALUMNI ADVISOR (FORMER PRESIDENT)

*Jun. 2019 - PRESENT*

- Promoted Asian awareness in the University and the community.
- Hosted fundraisers to raise money for breast cancer and domestic violence awareness.
- Fostered leadership skills by holding weekly meetings, quarterly presentations, and professional workshops.

## Honors & Awards

### Dean's Honors List

*Fall 2020*

### Monsanto Most Passionate Scholarship

*May 2017*