

# MEGAN POCKALNY

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ADDRESS

## EDUCATION

**UNIVERSITY OF COLORADO, ANSCHUTZ MEDICAL CAMPUS**  
PHD STUDENT, MOLECULAR BIOLOGY

AURORA, CO  
AUGUST 2022 - PRESENT

**UNIVERSITY OF CALIFORNIA, SAN DIEGO**  
BACHELOR OF SCIENCE, GENERAL BIOLOGY  
MINOR, LAW AND SOCIETY

LA JOLLA, CA  
SEPTEMBER 2014 - JUNE 2018

**UNIVERSITY OF CAPE TOWN, SOUTH AFRICA**  
SEMESTER STUDY ABROAD

CAPE TOWN, SOUTH AFRICA  
JULY 2016 - NOVEMBER 2016

## ACADEMIC EXPERIENCE

**TALIAFERRO LAB; ANSCHUTZ MEDICAL CAMPUS**  
ROTATION STUDENT

AURORA, CO  
SEPTEMBER 2022 - DECEMBER 2022

- Investigating the localized conversion of guanine to 8-oxoguanine as a live-cell RNA proximity labeling technique
- Determining subcellular RNA localization of LARP1-mediated transportation of 5' UTR TOP motif variations

**NICHOLS LAB; ANSCHUTZ MEDICAL CAMPUS**  
ROTATION STUDENT

AURORA, CO  
DECEMBER 2022 - FEBRUARY 2023

- Studying the differences in neural crest cell subpopulations that give rise to the craniofacial skeleton, specifically using *alx* and *prrx* genes in zebrafish as a model system
- Further investigating the inhibitory pattern that *alx* has shown against *prrx* and investigating whether these genes are mutual inhibitors of each other

## INDUSTRY EXPERIENCE

**VECTOR LABORATORIES**  
RESEARCH ASSOCIATE II

BURLINGAME, CA  
MARCH 2021 - APRIL 2022

- Independently design, execute, and analyze results from routine and advanced experimental protocols including ELISA, gel electrophoresis, IHC, IF, PCR, etc.
- Independently investigate and troubleshoot product failures from customer complaints and internal manufacturing processes
- Active participation in experimental design and project direction of upcoming R&D projects
- Write and revise documents according to established quality protocols
- Collaborate with all departments of Vector Laboratories to develop and launch new products
- Maintains a detailed laboratory notebook of protocols, data, and results

**VECTOR LABORATORIES  
RESEARCH ASSOCIATE I**

BURLINGAME, CA  
MARCH 2019 - MARCH 2021

- Execute basic and semi-routine experimental protocols on current R&D projects
- Investigate and troubleshoot product complaints from large customers
- Operate and maintain laboratory equipment following established protocols
- Independently prepare buffers and reagents as needed
- Maintains a detailed laboratory notebook of protocols, data, and results

**SYNTHEGO  
RESEARCH ASSOCIATE I**

REDWOOD CITY, CA  
AUGUST 2018 - MARCH 2019

- Synthesize sgRNA oligonucleotides for CRISPR/Cas9 applications
- Perform quality control of oligonucleotides and examine contaminating substances through analysis of chromatographic data
- Utilize liquid handling equipment (TECAN, Hamilton) to perform dilutions and plating of the final oligonucleotide product
- Troubleshoot equipment failures through analysis of oligonucleotide quality data

**RADY CHILDREN'S HOSPITAL AND UCSD HEALTH  
PSYCHIATRY CLINICAL RESEARCH DATA ENTRY**

LA JOLLA, CA  
APRIL 2017 - JUNE 2018

- Organized and analyzed subject information and health records
- Engaged with subject's teachers for further data acquisition
- Designed and created data entry system in RedCAP to monitor subject responses

**TEACHING AND LEADERSHIP**

**UNIVERSITY OF CALIFORNIA, SAN DIEGO  
INSTRUCTIONAL ASSISTANT  
ORGANISMIC AND EVOLUTIONARY BIOLOGY**

LA JOLLA, CA  
MARCH 2017 - JUNE 2017

- Served as teaching assistant for the lower division course "Organismic and Evolutionary Biology"
- Ensured that professor lectures ran smoothly; proctored and graded exams
- Lead discussion sections of approximately 30 students through coursework-relevant activities and pre-exam preparation

**DELTA DELTA DELTA  
PRESIDENT**

LA JOLLA, CA  
JANUARY 2017 - JANUARY 2018

- Oversaw all chapter operations in an organization of 100+ members with a \$100,000+ yearly budget
- Managed a 5 person executive team and 19 additional officers with delegated responsibilities
- Served in the planning and execution of two fundraising events that resulted in \$10,000+ raised for donation to St. Jude Children's Research Hospital; reached out to St. Jude representatives to further engage our events with information and resources from the charity
- Attended two conferences focusing on leadership, self-improvement, and involvement with the community