

Isabel Henley

(925) 639-2773

isabelhenley@ucsb.edu

<https://isabelhenley.wixsite.com/isabelhenley>

EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

June 2023

Microbiology and Ecology & Evolution, B.S.

Minor in Professional Writing: Science Communication

Cumulative GPA: 3.56

AWARDS

Dean's Honors

Spring 2021 - Present

RESEARCH EXPERIENCE

UNDERGRADUATE RESEARCHER

Feb 2020 - Present

Arias Laboratory

Department of Molecular, Cellular, and Developmental Biology, UCSB

- Generate CRISPRi screens to identify cellular host factors that are essential for KSHV infection and replication
- Validate targets by silencing individual factors identified in the screen
- Evaluate viral protein production and replication in BCBL-1 and iSLK.219 cell lines using SDS-PAGE and Western Blotting techniques
- Exercise advanced experience with molecular biology and tissue culture techniques to maintain growth and monitor infected cells
- Present experimental data and literature review findings to the Principal Investigator and members of the lab
- Analyze CRISPRi screens and other experimental data through various computational tools
- Researched applications of CRISPRi for viral gene silencing and compiled a 14-page draft manuscript to support a rationale for the project
- Reduced off-target effects and improved the accuracy of the CRISPRi system by designing a comprehensive single guide RNA library using Linux and Python

WORK EXPERIENCE

YOGA TEACHER

Jul 2017 - Feb 2022

Just Be Yoga, LLC

- Designed and sequenced classes using knowledge of human anatomy and breath technique
- Incorporated yogic philosophy, spiritual teachings, and social justice in each class
- Fostered a safe environment for students to connect with their bodies, breath, and community
- Created a workshop series for my fellow teachers to incorporate social justice into their own classes and practice

DIRECTOR OF MARKETING & SOCIAL MEDIA

Jul 2020 - Feb 2022

Just Be Yoga, LLC

- Expanded the business's social media following by 30% by creating engaging content and social media campaigns
- Revitalized the business's social media and marketing strategy and increased engagement by 20%
- Created content for bimonthly newsletters, with a viewership of over 10,000 clients
- Oversaw smooth execution of the social media and marketing strategy through timely delegation and communication with other leadership positions
- Championed access to the community by introducing a sliding scale payment option and a system for people to sponsor memberships for those in financial need
- Engineered the business's first, fully automated email sales funnel leading to a 5% increase in membership sales

TEACHING EXPERIENCE

LEARNING ASSISTANT

Sep 2022 - Present

Department of Molecular, Cellular, and Developmental Biology, UCSB

- Foster an engaging learning experience for students in MCDB 108A Biochemistry: Structure and Function of Macromolecules
- Exercise in-depth biochemistry knowledge to guide students' thinking of concepts and problems
- Arrange extra review sessions to integrate course concepts with practice problems and improve students' learning outcomes
- Undertook the extra responsibility to create additional practice problems and study resources for the course midterms and final exams

VOLUNTEER WORK

Food Not Bombs, Isla Vista

May 2021 - Present

- Combat food insecurity by preparing free, hot, vegan meals for the community and commit to climate justice by using sustainable and local produce
- Stock the community fridge and tend to the community garden

CERTIFICATIONS

200-hour Registered Yoga Teacher

Jun 16, 2017

Trauma-Informed Hands-On Yoga Assistant

Jul 1, 2017

500-hour Registered Yoga Teacher

Jul 30, 2019

ADDITIONAL SKILLS

Quantitative and analytical skills

- Experienced in ImageJ, Excel, and RStudio
- Experience with Python: SciPy, NumPy, BioPython, Pandas

Language Skills

- Spanish - limited business and conversational proficiency

Molecular Biology Techniques

- Polymerase chain reaction
- Macromolecule blotting and probing
- Bacterial transformation
- Cell transfection
- Cell and tissue culture
- DNA extraction and quantification

REFERENCES

Carolina Arias, Ph.D.

Assistant Professor, MCDB, UCSB
Relationship: Faculty Advisor
carolina.arias@lifesci.ucsb.edu

Kevin Brackett

PhD Candidate, MCDB, UCSB
Relationship: Graduate student mentor
kevin.brackett@lifesci.ucsb.edu

Daniel Frank, Ph.D.

Lecturer, UCSB Writing Program
Relationship: Former professor
dmfrank@writing.ucsb.edu

Kenneth Smith, Ph.D.

Lecturer, UCSB Writing Program
Relationship: Former professor
kennyandrewsmith@ucsb.edu

Jenni Wendell

Owner, Just Be Yoga, LLC
Relationship: Mentor and former boss
jenni@myjustbeyoga.com

Misha McNair

Former manager, Just Be Yoga, LLC
Relationship: Mentor and former boss
misha@myjustbeyoga.com