

Education

University of California Santa Barbara | *B.S. Environmental Studies, B.S. Ecology and Evolution, September 2021-Present*
Total Units: 145.5 | GPA: 4.0
Troy High School | *Troy Tech. Seal of Biliteracy French. GED, National Hispanic Merit Scholar. AP Scholar with Distinction,*
August 2017-May 2021 | **GPA: 4.71**

RESEARCH EXPERIENCE

UCSB Ocean Recoveries Lab: *Santa Barbara, CA*

Research Technician (January 2023 - Present)

- Investigate the relationship between functional traits and ecosystem functions in kelp forest macroalgae using carbon and nitrogen cycling analysis, herbarium, and ImageJ
- Lead a project to study the effects of preservation on macroalgae functional traits

UCSB Bren School of Environmental Science and Management: *Santa Barbara, CA*

Graduate California Fisheries Data Research and Communication Outreach Intern (June 2022 - September 2022)

- Studied the economic, social, and environmental effects of marine debris and clean-up efforts in southern California and Hawai'i
- Synthesized communication media and graphs using ArcGIS and RStudio for non-profits

Massachusetts Institute of Technology: Environmental Systems Department: *Cambridge, MA*
Environmental Ph.D. Project Assistant (May 2022 - Present)

- Created figures demonstrating spatial and temporal overlays of declining fish stocks and expanding fishing efforts in South Africa (RStudio/ArcGIS)

UC Santa Barbara Cheadle Center for Biodiversity and Ecological Restoration: *Santa Barbara, CA*
Laboratory Coordinator (August 2021 - March 2023)

- Create and execute a study of carbon content in marine sediments as a restoration efficacy indicator
- Catalog water salinity, dissolved oxygen, conductivity, turbidity, and macroinvertebrate populations in Coal Oil Point Reserve for restoration efficacy reports
- Organize, train, and supervise volunteers performing sample collection and sample analysis
- Present research at the annual UCSB Undergraduate Research Symposium

UNBER/CDFW Fish Survey *Newport Beach, CA*

Scientific Aid (June 2021 - December 2021)

- Sampled and recorded water quality of local estuaries for UNBER and the California Department of Fish and Wildlife databases
- Collect species using beach seines and net trawls and log species weight, length, scientific name, and quantity into CDFW and UNBER databases

Outreach Activities

Orange County Coastkeeper *Costa Mesa, CA*

Research/Education Intern (June 2021 - September 2021)

- Participated in the Marine Life Inventory program in Newport Beach to teach K-12 Students about local estuary marine life in the Newport Bay
- Operate all aspects of the Seal Beach Fishing Line Recycling Program including volunteer, city, and non-profit coordination

Orange County Coastkeeper *Costa Mesa, CA*

Outreach Intern (August 2020 - December 2020)

- Distribute outreach materials that encouraged angler to prevent marine life entanglements
- Draft blog reports about safe boating and angling practices

Presentations

Bren School of Environmental Science and Management Diversity Leader's Symposium *Santa Barbara, CA (November 2022)*

- Presented my personal experience in the context of being a BIPOC within environmental science and research

Bren School of Environmental Science and Management Mantell Symposium *Santa Barbara, CA (November 2022)*

- Presented research on the locations of southern california whale entanglements and areas of high fishing gear abandonment

UCSB Undergraduate Research Symposium *Santa Barbara, CA (April 2022)*

- Present research on the correlation between water quality factors and macroinvertebrate abundance and diversity within brackish wetlands

Publications

Acknowledged, **Debris Free Seas: Assessing Economic Losses and Impacts to Fishers, the State, and the Environment from Lost Fishing Gear**, Masters Project 2023

Co-author, **Deadliest Bycatch: Summarizing and Mapping a Debris Free Sea**, BREN Poster 2022

Co-author, **Aquatic Macroinvertebrate Monitoring at Devereux Slough**, CCBER Poster 2022

Media & Outreach

Featured, **Blue Future: Citizen Science and Activism**, Patagonia 2023

Co-author, **Diving in to REEF Safe Sunscreen: Meet the Student Scientists**, Avasol 2023

Author, **ODA: Twenty Years of Debris Free Seas**, ArcGIS Story Map 2022

Author, **Safe Boating and Fishing Practices**, OC Coastkeeper 2020

Author, **How our Intern Brought Fishing Line Recycling to the Seal Beach Pier**, OC Coastkeeper 2020

Fellowships and Awards

SACNAS - California Sea Grant Pathways to Inclusive Research Training Program

Undergraduate Fellowship (October 2023-Present)

- Conference and mentorship fellowship

Shoreliner Scholarship

Undergraduate Fellowship (October 2023 - Present)

- One of three undergraduate students chosen to support independent research

Tom Rogers Scholarship

Scholarship(May 2023 - Present)

- One of three undergraduate students chosen to support independent research

Coastal Fund Grant Recipient

Undergraduate Research Funding

- Grant proposal for summer research support for graduate/undergraduate team

DIVERsity in Diving

Undergraduate Fellowship (November 2022 - Present)

- Provide resources and mentorship for prospective scientific divers

Bentson Scholarship

Undergraduate Fellowship (November 2022 - Present)

- One of three undergraduate students chosen to support independent research

Bren Environmental Diversity Leaders Fellowship

Undergraduate Fellowship (June 2022 - Present)

- Mentorship program to support graduate student projects at the UCSB Bren School
- Present research and diversity experience at the Mantell Research Symposium

FUERTE Undergraduate Fellowship Santa Barbara, CA

FUERTE Fellow (March 2022 - Present)

- FUERTE is a mentorship program for underrepresented undergraduates to gain experience in environmental, marine, and conservation biology fieldwork

Hispanic Scholarship Fund

National Hispanic Scholarship Fund Scholar (June 2021 - Present)

- One of 5,000 higher education students selected to receive a merit scholarship demonstrated through literacy proficiency and academic excellence

Service

Goleta Surfrider Foundation *Santa Barbara, CA*

Blue Water Task Force Member (October 2021 - Present)

- Sample and publish water quality (turbidity, dissolved oxygen, pH, temperature, and indicator bacteria) of Isla Vista beaches to inform beachgoers

Seal Beach Fishing Line Recycling Program, *Seal Beach, CA*

Founder/Operator (August 2020 - Present)

- Coordinated with state and local governments as well as nonprofits to implement a fishing line recycling program in Seal Beach, CA
- Train and organize over 300 volunteers each month to collect discarded fishing line and process it for recycling

Boy Scouts of America: Troop 105, *Long Beach, CA*

Eagle Scout with Gold Palm (January 2013 - May 2021)

- Designed and created a handicap accessible science garden for the special education department at Troy High School

Skills

RStudio, ArcGIS, ImageJ, JavaScript, Survey123, JonahVentures EDNA, California State Seal of Biliteracy, SolidWorks, DaVinci Production Editor, Adobe Photoshop