**Mariam Moreno**

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# Education

**San Francisco State University,** San Francisco, CA Anticipated Graduation May 2026

Master of Science in Interdisciplinary Marine & Estuarine Sciences

**University of Hawaiʻi at Mānoa**, Honolulu, HI August 2017- May 2021

Bachelor of Science in Global Environmental Science

# Work Experiences

**Roundhouse Aquarium**,Manhattan Beach, CA June 2022- August 2023

*Program Assistant*

* Student Education: Online, onsite, and outreach classes on marine biology, water conservation, and cephalopod dissections
  + Preparing teaching materials and interactive lessons for grades K-12 that included tidepool animal connections, science experiments, and educational games
* Public Education and Volunteer Coordinating: Interpreting different exhibits to the public, greeting guests, and assigning and rotating volunteers across the different stations
  + Mentoring high school students in aquarist tasks
  + Mentoring college students in teaching online classes
* Aquarist duties such as feeding animals of the exhibits, tank and sump maintenance, and performing routine temperature and water quality checks

**University of Hawaiʻi at Mānoa Department of Oceanography**, Honolulu, HI June 2019-May 2021

## Oceanographic Research Assistant

* Data collection, entry, and analysis of water from three potential intake and discharge sites for the Seawater Air Conditioning (SWAC) project for the city of Honolulu
* Calibrated and fixed instruments before every deployment by replacing batteries, programming sensors, and inspecting and preventing water damage
* Conducted independent research that compared environmental factors to vertical picoplankton distributions at nearshore and offshore sites

# Research Experience

**Undergraduate Thesis** May 2021

Environmental Influences on Vertical Picoplankton Distribution in Māmala Bay, Oʻahu, Hawaiʻi

Advisors: Dr. Margaret McManus & Christina Comfort

* Examined any influences nutrients, chlorophyll, and photosynthetically active radiation (PAR) had on abundances of *Prochlorococcus* and *Synechococcus* at 2 nearshore sites and 1 offshore site which in turn would serve as a contribution to an 8-year time series report of the understudied nearshore ecosystem Māmala Bay, Oʻahu, Hawaiʻi
* Graphics were produced using MATLAB and Python and presented to the Department of Oceanography in the School of Ocean and Earth Science and Technology at the University of Hawaiʻi Mānoa as part of the virtual Global Environmental Science Symposium. This paper is available here: <https://hdl.handle.net/10125/102415>

**Hawaiʻi Ocean Time-Series**, Honolulu, HI

*Undergraduate Volunteer*  Oct. 2018 & Dec. 2019

* Contributed to the Hawaiʻi Ocean Time Series data collection of the physical oceanographic properties of the North Pacific Tropical Gyre by collecting and analyzing water samples aboard the R/V Kilo Moana
* Shadowed principal investigators, research technicians, and graduate students of the physical oceanography lab
* Recorded atmospheric and sea surface temperature data during times of CTD casts to ensure accurate record keeping

**Catalina Sea Ranch**, San Pedro, CA

*Research Intern* Summer 2017

* Measured and recorded domoic acid levels using a Domoic Acid ELISA Kit in California mussels to determine if they were safe for human consumption
* Husbandry work of cleaning shellfish holding tanks and gaging water temperature to make sure tanks were habitable
* Presented my findings to the executive director and my mentors at Catalina Sea Ranch

# Activities

**Roundhouse Aquarium**,Manhattan Beach, CA

*Service-Learning Student Volunteer* April 2022-June 2022

* Public & Student Education
  + Assisted with school field trips, leading lessons about marine biology and water conservation
  + Educated guests during public hours about Southern California marine life at interactive exhibits
  + Created a schedule to rotate volunteers among the different stations during public hours
* Aquarist duties such as feeding animals of the exhibits, cleaning protein skimmers, replacing carbon in carbon socks, and performing routine temperature checks