**Mariam Moreno**

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# Education

**University of Hawaiʻi at Mānoa**, Honolulu, HI May 2021

Bachelor of Science in Global Environmental Science

*An ABET- accredited program*

# Work Experiences

**Roundhouse Aquarium**,Manhattan Beach, CA June 2022-Present

*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

<https://hdl.handle.net/10125/102415>

* Examined the microbial ecology of 3 sample sites which in turn would serve as a contribution to an 8-year time series report of the understudied nearshore ecosystem Māmala Bay, Oʻahu, Hawaiʻi

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

*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

*Intern* Summer 2017

* Measured and recorded domoic acid levels in 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

# 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

**Newman Center at the University of Hawaiʻi Mānoa** Spring 2019

## Blood Drive Coordinator

* Lead a team of volunteers from both the Newman Center and the Blood Bank of Hawaiʻi to host a successful blood drive that saved 75 lives
* Ensured a comfortable and welcoming environment for donors, employees, and volunteers while keeping operations running smoothly and efficiently

# Skills

* Experienced in MATLAB and Python
* Proficient in Microsoft Office and Google Drive
* Teaching
* Mentorship of students
* Event coordinating
* CPR and Basic First Aid Certification
* Lab equipment used: 25 mm GF/F glass fiber filters (chlorophyll), Turner-10AU fluorometer, automatic oxygen titrator, Domoic Acid ELISA Kit
* Field equipment used: CTD, fluorometer, acoustic doppler current profiler, Niskin bottles