

NOELLIE MOCTEZUMA MARTÍNEZ

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Education & Relevant Coursework

University of Puerto Rico at Mayagüez

Bachelor in Biology

Expected graduation date: December, 2025

Mayagüez, Puerto Rico

▷ Associations:

- Asociación de Estudiantes de Biología (AEB) 2023 - Present Day
- Sociedad Nacional de Biología (BBB) 2023 - Present Day
- American National Honor Society (ANHS) 2017 - 2021

▷ Related Coursework:

- Genetics & Associated Lab
- Human Physiology & Associated Lab
- Cellular Physiology & Associated Lab
- Organic Chemistry & Associated Lab
- First Aid, Personal & Community Health
- Virology & Associated Lab

Relevant Research & Clinical Experience

M.A.D.D.

2025

Researcher; Primary Investigator: Dr. Timothy Colston

UPRM

- Prepared biological samples for bead tube testing, DNA extraction, microbial analysis, and sample preservation.
- Dissected a variety of reptiles, documented anatomical information, and entered specimen details into the National Science Foundation database.
- Joined in fieldwork, collected environmental samples, and documented behavioral data.

Effects of Restoration on Viral Ecology and Abundance in Mangrove Forests

Spring 2025

Primary Investigator and Co-Author

UPRM

- Conducted fieldwork, collected water samples from Puerto Rican mangrove sites to assess ecosystem health using cyanophage abundance as an indicator.
- Carried out a series of serial dilutions and MPN plate assays using various cyanobacteria host strains to determine host susceptibility and viral concentration; identified lysed wells and visualized results using box plots on RStudio.
- Designed, executed, and authored a scientific study following Caribbean Journal of Science guidelines, formatted for submission to a peer-reviewed journal.

MAPR Herbarium

2024-2025

Personnel

UPRM

- Curated specimens in the MAPR Herbarium collection.
- Mounted herbarium specimens using a stitching technique, processed for conservation and scientific use.
- Assisted in research work, including specimen documentation, ensuring sample labeling meets Darwin Core standards, and preparation of herbarium specimen vouchers.

Marine Invertebrates of Mesophotic Reef Sediments from a Molecular Standpoint

Fall 2023

Volunteer Researcher; Primary Investigator: Dra. Monica Alfaro

UPRM

- Prepared samples for analysis and used a microscope to detect and isolate any small organisms present.
- Identified species using an identification guide and kept a record of details such as size and species name.
- Classified the organisms and analyzed their diversity in relation to environmental factors like ocean depth.

Shadowing Experience

Plastic & Reconstructive Surgery

Summer 2024

Observer; Mentor: Dr. Jonathan Hernandez

Metro Pavia Hospital

- Observed pre- and post-operative consultations and minor procedures under local anesthesia.

Gynecology & Medical Aesthetics

Summer 2024

Observer; Mentor: Dra. Alma Pontón

Caribbean Gyn Institute

- Shadowed gynecological consultations and cosmetic procedures, including Botox touch-ups; gaining insight into patient care techniques and procedural protocols.

Volunteer & Leadership Experience

Observatorio Puertorriqueño de Plantas Medicinales (OPPM)

2025

Secretary

UPRM

- **Managed administrative tasks**, including **handling correspondence**, **maintaining** records of **team discussions**, and **scheduling meetings**.

Asociación de Buceo Colegial

2025

Secretary

UPRM

- **Coordinated** with other campus organizations to collaborate on educational events.
- **Handled external and internal communications**, including **composing** and **transcribing documents**, and **managing telecommunications** (bi-weekly newsletter, event announcements).

Fundación "Mochilas de Amor" 1er aniversario del Primary Care

August 9th 2024

Volunteer

Hospital Wilma N. Vázquez

- **Assisted** in **organizing** the **inauguration ceremony** of the new **pediatric ward** at the hospital.

Feria de Salud (Back to School)

August 2nd 2024

Volunteer

Hospital Pavía, Caguas

- **Supported** the **administrative team** in **managing registration**, **arranging informational materials**, and **maintaining** an **organized, welcoming environment** throughout the event.

Certifications

CPR / AED / First Aid Certification, American Heart Association

May 2025

Parasitology Training Workshop, University of Puerto Rico

April 2025

Skills

Laboratory: Microbiology Cell Culture & Pipetting, Operating Compound Microscope, Biochemical Tests, Staining & Sample Isolation Techniques

Soft Skills: Problem Solving, Presentation, Adaptability, Collaborative Teamwork, Effective Communication

Technologies: Microsfot365, Molecular Evolutionary Genetics Analysis (**MEGA**), Espectrofotometro

Spoken Languages: Spanish (*Native Proficiency*), English (*Native Proficiency*)