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# Education & Relevant Coursework

**University of Puerto Rico at Mayagüez Expected graduation date: December, 2025**

Bachelor in Biology Mayagüez, Puerto Rico

## ▷ Associations:

* Asociacíon 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 - Organic Chemistry & Associated Lab
  + Human Physiology & Associated Lab - First Aid, Personal & Community Health
  + Cellular Physiology & Associated Lab - 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 Puertorriquen˜o de Plantas Medicinales (OPPM) 2025

Secretary UPRM

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

## Asociacíon 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**).

## Fundacíon ”Mochilas de Amor” 1er aniversario del Primary Care August 9th 2024

Volunteer Hospital Wilma N. Vzquez

* **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)