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# KATHERINE M. PAGÁN RIVERA

## EDUCATION

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<b>B.S. Marine Biology and Wildlife Management</b> (GPA: 3.3) Natural Sciences College, University of Puerto Rico- Humacao Campus	2017 - 2022
<b>High School Diploma</b> (Valedictorian, GPA:3.9) North Seventh-day Adventist Academy, Arecibo - Puerto Rico	2015 - 2017

### Subject-Specific Courses

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Undergrad: General Ecology, Oceanography, Botany, Organic Chemistry I, Costal Marine Ecology, Invertebrates, Herpetofauna, Population Ecology, Biometry, Zoology, Organic Chemistry II, Plant taxonomy, Vertebrates, Wildlife Management, Community Ecology, Coastal Geomorphology, Problems of Coastal Development, Physics I, Environmental Legal Economic and Sociology Aspect, Development Biology, Physics II

## RESEARCH EXPERIENCE

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<b>Research Experience for Undergraduates</b> University of New Hampshire, New Hampshire	Summer 2022
<ul style="list-style-type: none"><li>• Taking and analyzing fish and invertebrate sounds in coastal areas.</li><li>• Present project on a research symposium</li><li>• Participated on R Studios weekly workshops</li></ul>	
<b>Research Experience for Undergraduates (Hybrid)</b> Organization for Tropical Studies (OTS), Costa Rica	Summer 2021 & Winter 2021
<ul style="list-style-type: none"><li>• Taking and analyzing digital measurements to estimate biomass variations of benthic macrofauna</li><li>• Present results of the project on a research symposium</li><li>• Intensive field work training</li><li>• Participated on science communication workshop and worked on a sci-comm documentary</li><li>• Conduct, completed and present short research project with limited time.<ul style="list-style-type: none"><li>o Invertebrate populations in open and closed areas of rivers</li><li>o Activity patterns of Tanager birds in an upland forest</li></ul></li></ul>	

## Internships

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<b>Tropical Responses to Altered Climate Experiment (TRACE), Intern</b> Luquillo, Puerto Rico	January 2023 - Present
<ul style="list-style-type: none"><li>• Worked as field technician on heat treatment experiments at the Sabana Field Station.</li><li>• Aided in laboratory procedures, laboratory maintenance and aseptic practices.</li><li>• Collection and processing data such as Minirhizotron, Litterfall, Soil Gas Flux, Canopy Mesurements, Point and surface Lysimetry, among others</li><li>• Assisted grad students and other stations projects such as El Verde Field Station.</li></ul>	
<b>Amigos de las Tortugas Marinas (ATMAR), Voluntier Assistant</b> Maunabo, Puerto Rico	Summer 2019
<ul style="list-style-type: none"><li>• Patrolled beach at 5am for Leatherback and Hawksbill nest census.</li><li>• Determined hatch success of over 100 nests and saved trapped newborns and recorded all field information daily with accuracy and entered data to database using Excel for the Department of natural and environmental resources in Puerto Rico (DRNA).</li><li>• Management of the organization income.</li><li>• Educated students from elementary to high school groups on organization's mission and work.</li></ul>	

## Literature

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Borders, Thomas; Katherine M. Pagán Rivera; and Patricia Esquete. 2021. Estimating biomass variations of benthic macrofauna in the Clarion-Clipperton Fracture Zone over space and time. In *Proceedings from the Louis Stokes Alliance for Minority Participation Research Experience for Undergraduates (REU) Hybrid Program, 2021* (editors Walter, S.T. and C. Ganong). Organization for Tropical Studies, Costa Rica.

## EXTRACURRICULAR AND INSTITUTIONAL SERVICES

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**Coastal Marine Biology Students Organization (OEBMC), President** 2020 - 2021

University of Puerto Rico - Humacao Campus

- Represent the Organization to the faculty and others entities.
- Convoke and lead meetings between board members and regular members.
- Plan and execute activities such as educational workshops, presentations and incorporated faculty and students.
- Required to take decisions under pressure.
- Mentored over 75 students.
- Inform and update members on extracurricular activities and programs related to the bachelor.

**General Student Council (CGE), Natural Sciences Counselor** 2019 - 2020

University of Puerto Rico - Humacao Campus

- Serve as a mentor for the entire student body of over 1,000 students in the Natural Sciences Department.
- Increased student attendance for assemblies over 50%, breaking the record for the last year, by lobbying students with social media and one-on-one interactions.
- Organized new last-minute meeting accommodations due to being over-capacity from an increase of attendees.

**Coastal Marine Biology Students Organization (OEBMC), Liaison** 2019 - 2020

University of Puerto Rico - Humacao Campus

- Planed activities such as workshops, presentations and mentoring services.
- Substituted higher-level positions when necessary.
- Mediate between board members and regular members.
- Announce and update members on extracurricular activities

## PROFESIONAL AND ACADEMIC AFILIATION

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Member, Students Organization of Coastal Marine Biology (OEBMC). 2019 - 2023

Member, Harimau Conservation Students Organization (HCSA). 2019 - 2022

Member, SEEDS Ecology Chapter 2019 - 2021

Member, Students Association of Wildlife Management (AEMVS). 2018 - 2021

Member, Students Association of Coastal Marine Biology (AEBMC). 2017 - 2019

## LANGUAGES

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- Spanish • English

## COMPUTER SKILLS

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- Mac and Pc systems: word processor (word, pages); graphics (excel, numbers); presentation (power point, keynote)
- Video & Photo editing (Movie maker, iMovie, Canva)
- Programming Language: R Studios, Python
- Image processing program: JMicroVision
- Sound Analysis (Raven, Audacity, AudioMoth)

## LICENCES AND CERTIFICATION

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- Drivers • Advance Open Water Diver • Navigation (DNR) • Cardiopulmonary Resuscitation (CPR)

## ADDITIONAL SKILLS

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- General oceanographic skills (nautical charts, course plotting, water quality)