

Raymond U. Infante Rosa

MSc. STUDENT, BIOLOGICAL OCEANOGRAPHY

University of Puerto Rico, Mayaguez Campus

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Education

University of Puerto Rico, Mayaguez campus

MSC. BIOLOGICAL OCEANOGRAPHY

Mayaguez, Puerto Rico

2021-present

University of Puerto Rico, Aguadilla Campus

BS.BIOLOGY

Aguadilla, Puerto Rico

2016-2020

Professional Experience

Independent Contractor for Spatial Analysis

WORK WITH COMPANY SUCH AS EMC LLC TO ANALYSE SPATIAL DATA USING VECTOR AND RASTER DATA

2023-Present

MacroAlgae Farm Technician - CARICOOS - Marine Biological Laboratories

MAINTANENCE OF EQUIPMENT AND ALGAE FARM. ALGAE MEASUREMENT AND WATER QUALITY ANALYSIS. HYDROPHONES AND TEMPERATURE SENSORS DEPLOYMENT

September 2023 - December 2023

BioAcoustic Technician - Isla Mar

ANALYZE HYDROPHONES DATA, AND QUANTIFIED THE CALLS FROM RED HIND, NASSAU, BLACK AND YELLOWFIN GROUPERS. SCUBA DIVING CENSUS OF NASSAU GROUPERS. QA/QC OF RUV AND HYDROPHONES DEPLOYMENT. DATA MANAGING

June 2023 - Present

NASA MUREP

WORK ON TRACKING SARGASSUM USING REMOTE SENSING, AS ANALYZING IT INSITU. ADDITIONALLY I'M IN CHARGE OF ANALYSIS THE DATA FROM INSITU EQUIPMENTS SUCH AS: GER1500, EXO1, SOLAR LIGHT, EUREKA

2022-Present

NOAA Cooperative Science Center in Atmospheric Science and Meteorology (NCAS-M)

Fellow

GRADUATE INTERNSHIP FUNDED BY NOAA EPP/MSI: LEARNED TO USE REMOTE SENSING TECNOLOGIES TO TRACK PELAGIC SARGASSUM AS TO COLLECT FOR THE STUDY OF THE MICROPLASTIC. I ALSO ATTENDED MEETING AND SEMINARS OFFERED BY NOAA EPP/MSI. FINALLY I GOT AN INTRODUCTION FOR ANALYZING DATA VIA CODING IN R AS UTILIZING SNAP SOFTWARE

2022

Ramp Agent, Wester Aviation

IN CHARGE OF: MARSHSALLING AIRPLANE, LOADIND/UNLOADING BAGGAGE, PUSHBACK AND CLEANING

2021

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Research Experience

Bioacoustic-Technician

IN THIS RESEARCH I LEARNED AND WORKED ON MANAGE AND MAINTAIN HYDROPHONES AS WELL TO ANALYZE THE RECORDING. AT THE SAME TIME I ANALYZED 2023 HYDROPHONES SPECTOGRAMS, FROM JANUARY TO APRIL 2023, DETERMINING THE PRESENCE OF FOUR IMPORTANT GROUPERS (RED HIND, NASSAU, BLACK AND YELLOWFIN).

June-September 2023

Ocean Color with Planet Scope

THIS RESEARCH IS IMPLEMENTING OCEAN COLOR ALGORITHMS FOR PLANET SUPERDOVE SATTTELITES. FOR FURTHER ANALYSES ON COASTAL OCEAN COLOR STUDIES.

2022-Present

Microplastics Coastal Contamination Gradient in La Parguera P.R.

THIS RESEARCH IS TRYING TO ANSWER IF IT EXIST A COASTAL GRADIENT CONCENTRATION OF MICROPLASTICS IN LA PARGUERA RESERVE, P.R.

2022-Present

Lobatus gigas Queen Conch Project

WE WERE IN CHARGE OF CONDUCTING TWO TYPE OF CENSUS (LINEAR TRANSECT AND CIRCULAR OBSERVATIONS), MEASURING AND QUANTIFYING *LOBATUS GIGAS*, FOR FURTHER ANALYSES ON THE BEST METHODOLOGY FOR STUDYING *LOBATUS GIGAS*

2022

Using Automated Digital Recordings to Monitor the Avifauna of Guajataca State Forest

IN THIS PROJECT WE USED THE OPEN ACOUSTIC AUDIO MOTH RECORDER, TO ANALYSE THE AVIFAUNA ON GUAJATACA FOREST

2020

Counting *Phaethon lepturus* in the cliffs of Quebradilla Puerto Rico

WE COUNTED *PHAETHON LEPTURUS* FOR THE ANNUAL CENSUS OF THIS SPECIES IN THE CARIBBEAN 2020

Using Coastline Plant to Protect and Harden Sand Dunes

WE CONCLUDE THAT THE USES OF COASTAL PLANTS, HELPS THE SAND DUNE TO HARDEN, CONSEQUENTLY PROTECTING COASTAL HOUSES. 2019

Certifications

Google Certificate

FOUNDATIONS OF DATA, ASKING QUESTIONS FOR DATA ANALYSIS 2023

Python Kaggle

LEARNED BASIC PYTHON FOR DATA ANALYSIS 2023

FAA part 107 Drone Pilot certificate

COMMERCIAL LICENSE 2022-Present

Diver First Aid SSI

2022-Present

Nitrox Diver

32% AND 36% MIXTURES 2022-Present

Advance Diver

DEEP DIVE, ADVANCE BUOYANCY, UNDERWATER NAVIGATION, BOAT DIVING, COMPUTER DIVING 2022-Present

DRNA Navigation License

2022-Present

Navigation Skills and Safety Course

MAR-NAVIGATION ACADEMY 2022

Marine Debris: Challenge and Opportunity

CERTIFICATE OF PARTICIPATION 2021

Minority Science and Engineering Program

MENTOR FOR MSEIP STUDENTS IN THE UNIVERSITY OF PUERTO RICO, AGUADILLA CAMPUS 2021

Tools for the Management of Marine Resources of Puerto Rico

CERTIFICATE OF PARTICIPATION 2021

Marine Science and Public Health

CERTIFICATE OF PARTICIPATION 2021

XX Undergraduate Research Symposium

UNIVERSITY OF PUERTO RICO, AGUADILLA CAMPUS 2021

MSEIP Undergraduate Mentored Student

2021

Associations

Asociacion de Estudiantes de Ciencias Marinas (AECiMa)

PRESIDENT 2024-Present

Asociacion de Estudiantes de Ciencias Marinas (AECiMa)

VICE-PRESIDENT 2023-Present

Asociacion de Estudiantes de Ciencias Marinas (AECiMa)

ASOCIATION TREASURER 2022-2023

Asociacion de Estudiantes de Ciencias Marinas (AECiMa)

VOCAL 2022

Voluntering

Equipo de Respuesta a Emergencias de Arrecifes (EREA 2.0)

APPLY TREATMENT FOR STONY CORAL TISSUE LOSS DISEASE ON CORALS FROM THE WEST OF PUERTO RICO

2024-Present

ISER Caribe

CLEAN CORAL NURSERY, CORAL FRAGGING, SEA URCHINS MATS RETREIVALS, LOCATE AND GATHER GREEN ALGAE (SEA LETTUCE)

2023

Vida Marina

IDENTIDIED AND EVIDENCED THE REASONS THE COCCOLOBA UVIFERA WERE DYING. AND HELPED BUILD A WOODEN BRIDGE TO PROTECT THE SAND DUNES IN ISABELA P.R.

2021

Skills _____

Leadership

MENTORING, GUIDING AND ORGANIZING EVENTS FOR ACADEMIA

Fieldwork

UNDERWATER AND TERRESTRIAL SCIENTIFIC SAMPLING

Teaching

TEACHING ENVIRONMENTAL SCIENCE, MARINE SCIENCE, METEROLOGY, DATA SCIENCE TOPICS, REMOTE SENSING TOPICS

Remote Sensing Data Analysis

IMAGE PROCESSING USING: SEADAS, SNAP, QGIS, ACOLITE

Geographic Information System

ANALYZING RASTER AND VECTOR DATA USING QGIS, SNAP AND R

R Programming Data Analyst

DATA ANALYSIS USING: BASE R, TIDYVERSE, RMARKDOWN, QUARTO, TIDYMODELS (MACHINE LEARNING)

Python Data Analysis

BASICS ON NUMPY, PANDAS, MATPLOTLIB, SEABORN

Aerial and Underwater Photographer

DRONE PHOTOGRAPHY, PHOTO MOSAICS

SDI - Rescue Diver

2023-Present

Advance Diver

DEEP DIVE, ADVANCE BUOYANCY, UNDERWATER NAVIGATION, BOAT DIVING, COMPUTER DIVING

Photo and Video Editing

USE AFFINITY PHOTO FOR EDITING, COLOR GRADING AND COLOR CORRECTION. USES DAVINCI RESOLVE FOR VIDEO EDITING