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Summary

Conducted sea turtle and ray field research in and around the "Costa Rica Thermal Dome," a Mission Blue/Sylvia Earle Alliance "Hope Spot"

Determined species composition of the shark fins involved in confiscation of illegal fins from different countries in Latin America, and strengthened the implementation of national and international regulations on commercialization and trade of marine species through participation in a "Morphological and Genetic Identification of Shark Fins" project supervised by Dr. Sebastian Hernandez. The fins used in project were confiscated and provided by CITES for research.

Designed and conducted Island Biogeography Theory (IBT) research project using mechanistic model by GoLab®. Produced top quality, professional report featured in an island biogeography journal, contributing to advancements of theoretical development and integration of complex mechanisms of IBT.

Supported the development of sustainable habits in an international local community, while simultaneously alleviating poverty, supporting the local education system, strengthening environmental conservation activities, protecting endangered species, and creating social, technical, and environmental awareness of tourism-generated pollution effects on the coastal environment.

I strive to holistically combine my unique experiences, skills, and knowledge I have gained both on a local and international scale to create an impactful difference those in our household, classroom, community, nation, and world need.

Experience



NASA GISN Member, Scientist, Mentor

The GLOBE Program

Apr 2021 - Present (4 months +)

Official scientist, mentor, and member of the GLOBE International Stem Network (GISN) sponsored by NASA, and supported by NOAA, NSF, and the U.S. Department of State



Plastic Bank Ambassador

Plastic Bank

Feb 2021 - Present (6 months +)

Revolutionizing the world's recycling systems to create a regenerative, inclusive, and circular plastic economy. Helping the world stop ocean plastic while alleviating poverty and improving the lives of collector communities.



Stream Conservation Steward, Stream Team Member

MISSOURI STREAM TEAM WATERSHED COALITION

Dec 2020 - Present (8 months +)

Actively organizing and engaging in Volunteer Stream Team Member Activities that promote and preserve the health of Missouri Streams:

- Invasive Species Monitoring
- Volunteer Water Quality Monitoring Program
- Rain Garden and Rain Barrel Installation/Maintenance
- Storm Drain Stenciling Project, Litter Clean-up, and Community Education Campaign
- Monofilament Recovery and Recycling Program Monitor (MRRP)



Student Researcher | Island Biogeography Project

Excelsior College

Jun 2020 - Nov 2020 (6 months)

- Designed and conducted own research project using the online Island Biogeography Lab developed by Go-Lab®
- Produced top quality, professional science research report featured in journal "Island Biogeography: Experimentation through Virtual Simulation"
- Analyzed quantitative and qualitative research data and made evidence-based conclusions
- Provided interdisciplinary scientific approach to solve complex, contemporary global issues
- Demonstrated the ability to integrate scientific methods of inquiry, analyze large amounts of collected data organized on complexly-formatted and created Microsoft Excel Spreadsheets, and communicate findings
- Contributed to advancements of theoretical development and integration of complex mechanisms of island biogeography
- Created professional presentation for research project publication, utilizing Microsoft PowerPoint to visually display data, allowing engaged exchange between scientific community and individuals in society



Fine Dining Server and Event Staff

Grand Street Cafe

Nov 2017 - Mar 2020 (2 years 5 months)

Utilized team work skills working as event staff for wedding rehearsals, receptions, and corporate events ensuring smooth flow



Marine Biologist/Research Ecologist Assistant

Equipo Tora Carey

Jun 2017 - Jul 2017 (2 months)

- Knowledge and implementation of domestic and international laws protecting endangered sea turtles species (IUCN) that forage and nest in Costa Rica
- Applied knowledge of natural history, life stages, nesting biogeography, foraging grounds, predators, and threats of endangered sea turtles in collaboration with international scientists, youth programs, and NGO while monitoring for species
- Implemented conservation practices by measuring, weighing, metal tagging, and collecting tissue samples of endangered green sea turtles
- Assisted in retrieving tissue samples of rays for use in international European Elasmobranch Association (EEA) research
- Collected and classified pollution data for study on the effects of tourism on marine species in El Jobo

- Prepared and interpreted technical, social, and environmental awareness in correspondence to pollution study through digital storytelling film
- Utilized the interaction of the local youth and their education program, with a mission to raise awareness in the local community to support the development of sustainability habits and strengthen conservation activities through community engagement in scientific monitoring projects



BIOMOL Student Laboratory Research | International Shark Fins Project

Universidad Veritas

Jun 2017 - Jul 2017 (2 months)

- Morphological and Genetic Identification of Shark Fins Project supervised by Dr. Sebastian Hernandez
- Determine the species composition of the shark fins involved in confiscation of illegal fins from different countries in Latin America
- Dried fins confiscated and provided by CITES Oceana-Peru for project
- DNA Extraction and PCR Amplification laboratory skills to genetically identify sharks species from fins
- Strengthened the implementation of national and international regulations on commercialization and trade of marine species



Lead Gymnastics Instructor, Dance Instructor

Twister Sports

Aug 2016 - Jun 2017 (11 months)

Received "Outstanding New Coach Award" during first year of employment, in recognition of leadership accomplishments and impact made on students to succeed



Horticulture Specialist

Mrs. Robinson's Landscaping

Mar 2013 - Aug 2016 (3 years 6 months)

- Knowledge of plant identification and plant pathology
- Analyze data on conditions such as site location, drainage, or structure location for landscaping plans
- Cared for established lawns by mulching, aerating, fertilizing, and weeding
- Repaired established lawns using seed mixtures for particular soil type
- De-headed annuals and flowering perennials to encourage further growth



Lifeguard

Stewart Heights Community Pool

May 2012 - Sep 2012 (5 months)

Education



Excelsior College

Bachelor of Science - BS, Natural Sciences/Biology

2017 - 2020



Harvard University

Professional Certificate Program, Computer Science for Artificial Intelligence

2021 - Present

CS50's Introduction to Computer Science
CS50's Introduction to Artificial Intelligence with Python



Universidad Veritas

International Study Abroad Program (ISA), Conservation Biology, Endangered Marine Species, Tropical Ecology

Jun 2017 - Jul 2017

4.0 GPA



University of Central Missouri

Integrated Biology: Animal Biology Emphasis

2013 - 2016

Included ArcGIS Coursework

Licenses & Certifications



Hunter Education Certificate - Missouri Department of Conservation



Certified GLOBE Observer: Contribute Earth Science Data to NASA and GLOBE; Hydrosphere Certified - The GLOBE Program



Water Safety Training - American Red Cross Training Services



First Aid - American Red Cross

Issued Apr 2015 - Expires Apr 2017



Adult CPR/AED - American Red Cross

Issued Apr 2016 - Expires Apr 2018



eBird Essentials - The Cornell Lab of Ornithology



Missouri Boating Safety Certification - National Association of State Boating Law Administrators

Skills

Research • Critical Thinking • Leadership • Sustainability • Quantitative Research • Environmental Science • Laboratory Skills • Ecology • Team Work • Problem Solving

Honors & Awards



Photography Grand Award - Technology Education Association of Missouri Competition

 **Dean's List** - University of Central Missouri

 **Outstanding New Coach Award** - Twisters Sports Gymnastics

2015

Received first year of employment

 **Girl Scouts of America Silver Award**

 **Regional Champion of Star Systems Regional Dance Competition, National Dance Competitor**

 **Elected leader for Student-Athlete Leadership Team at University of Central Missouri**