

SABINE BAILEY

+1 (201)-572-4852 | sabine.bailey@auburn.edu | 723 West Glenn Ave., Auburn, AL, 36832

EDUCATION

Auburn University, Auburn, Alabama, US Expected Graduation Spring 2022

Master of Science

- Natural Resource Management
- Studying management practices concerning coral reefs in the Caribbean

McGill University, Montreal, QC, Canada September 2014- December 2018

Bachelor of Science

- Major in Biology
- Minor in Environmental Studies

University of Queensland, Brisbane, QLD, Australia February- November 2017

Study Year Abroad

- Relevant coursework: climate change and conservation biology, political science, and evolutionary psychology

PROFESSIONAL EXPERIENCE

Graduate Research Assistant August 2020- Present

Auburn University, Auburn, AL, USA

- Pursuing a MSc. in Natural Resource Management in the School of Forestry and Wildlife Sciences at Auburn University in the Conservation Governance Lab directed by Dr. Kelly Dunning
- Enrolled in research methods and design, political science, and biology courses
- Research focused on policies, stakeholders, and environmental legislations and risks concerning major port upgrades in three countries in the Caribbean
- In training to peer-review papers

Lab Communications Director August 2020- Present

Conservation Governance Lab, Auburn, AL, USA

- Oversee all communications on online platforms and manage, edit, and update lab website

Science Program Fellow January- May 2020

Coral Restoration Foundation, Key Largo, FL, USA

- Managed, scheduled, trained, and led in-water coral survivorship monitoring
- Ran data analyses and created data visualizations using Tableau and InDesign for clear and concise internal and external distribution
- Calculated coral coverage on reef sites by tracing corals from photomosaics using Photoshop and ImageJ
- Organized, tracked, and ensured phototagging and data entry was accurate

Communications and Marketing Fellow September 2019- January 2020

Coral Restoration Foundation, Key Largo, FL, USA

- Editor of the weekly newsletter and successfully increased viewership two fold
- Design posters, postcards, and more using Adobe InDesign and Photoshop for display and to distribute locally

- Collaborate with third parties and create informational displays to build networks and partnerships
- Develop and research marketing strategies to increase local and national visibility
- Manage all social media platforms and ensure compliance

Lead Coral Conservation and Reef Restoration Intern

January- August 2019

Coral Restoration Foundation, Key Largo, FL, USA

- Maintained off-shore coral nurseries, outplanted over 1,000 corals and monitored coral survivorship on eight reef sites along the Florida Keys Reef Tract
- Conducted an independent project creating a reef soundscape to place as an exhibit in our main building and to detect the differences of habitat activity between reef sites
- Organized and led restoration boats, educational workshops, and citizen science dive programs
- Served as a mentor for incoming interns and trained them in daily tasks on land and on water

Environmental Consulting Intern

June- August 2016

Hatfield Consultants, Vientiane, Laos

- Drafted sections of two South East Asia Disaster Risk Management (SEA DRM) Environmental and Social Management Framework (ESMF) Projects funded by the World Bank Group concerning flood-risk management in Cambodia and Laos
- Edited the newly revised Environmental and Social Impact Assessment (ESIA) concerning a hydrology dam in the Xe Kong river in Laos
- Reorganized and streamlined over 50 project files to increase efficiency and secure prioritization of tasks

Recreational Activities Leader

September 2015- August 2018

The Gold Centre (Autism and Development Disabilities), Montreal, QC, Canada

- Coordinated recreational activities for adults with disabilities including outings, bowling, and swimming
- Encouraged safe and social interactions among the participants and verified their arrival and departure

RESEARCH EXPERIENCE

Research Fellow

September- December 2018

Ricciardi Lab of Aquatic Invasive Species, McGill University, Montreal, QC, Canada

- Conducted an independent research project comparing the functional responses between the potentially invasive marbled crayfish (*Procambarus virginalis*) and established invader, rusty crayfish (*Faxonius rusticus*)
- Created an experimental area to conduct experiments and wrote a management protocol to ensure the maintenance of the space
- Guaranteed the well-being of the crayfish by regularly feeding them on a strict schedule, thoroughly cleaning the tanks, and monitoring the water quality
- Took extensive notes on the little researched species of marbled crayfish and wrote an animal care protocol to continue the care of the crayfish
- Counted over a thousand bloodworms every week for nine consecutive weeks to prepare for the functional response experiments
- Ran statistical parameters and analysed collected data using RStudio and various packages
- Wrote a scientific paper on the research experiment and results

Research Field Assistant

May- September 2018

Ricciardi Lab of Aquatic Invasive Species, McGill University, Montreal, QC, Canada

- Tested and monitored water quality and provided animal care for crayfish, mussels, and gobies
- Fished for tench and redhorse using seine and fyke nets in the St. Lawrence River, Montreal, to collect for invasive fish species experiments
- Performed fish gastrointestinal and otolith dissections on invasive fish species to observe their diets

- Developed fish identification skills and received government training on the Catostomidae family
- Scuba dived to set up traps in rivers, canals, and reservoirs around Montreal to catch invasive gobies and provide amphipods as food for crayfish

Australian Marine Environment Field Course

February- June 2017

Heron Island Research Station, The Southern Great Barrier Reef, Australia

- Conducted a comparative study on the abundance of six fish families on live versus dead corals on the Heron Island Reef flat at the Heron Island Research Station on Australia's Great Barrier Reef
- Snorkelled on the Reef Flat to record the number of fish observed on live and dead coral patches
- Ran statistical parameters and tests of collaborated data through Excel and Graphpad Prism
- Wrote a scientific report of the experiment and results

Shark Conservation Project Volunteer

June- August 2015

Projects Abroad, Pacific Harbour, Fiji

- Collected data on populations of indicator fish associated with sharks, rays, and skates through survey dives in the Bega Lagoon
- Tagged juvenile hammerhead sharks and uploaded data to university databases
- Surveyed communities in Pacific Harbour about their fishing practices and shark observations and delivered presentations on sustainable practices

AWARDS AND CONFERENCES

Graduate Assistantship

August 2020- May 2021

- Tuition fees up to 15 credits a term, annual stipend, and healthcare covered for 24 months

MIRNC-SEAFWA Participation Award

September 2020

- Covers the registration fees to attend the 74th Annual SEAFWA Virtual Conference in October 2020

MANRRS Virtual Regional Cluster

September 2020

- Attended with Region 3 representing Auburn University

The DEMA Show 2019

- Attended as a representative of Coral Restoration Foundation at the 2019 DEMA Show in Orlando, Florida

AFS Annual Meeting Undergraduate Travel Award

August 2018

- Covered the registration and travel fees to attend the 2018 American Fisheries Society Annual Meeting in Atlantic City, New Jersey

McGill University Mobility Award

January 2017

- Assisted in travel expenses for the exchange program

MEMBER AFFILIATIONS

Minorities in Agriculture, Natural Resources and Related Sciences

August 2020- Present

Auburn University, AL, USA

- Active member

The Climate Reality Project

August 2020- Present

Climate Reality Leadership Corps, Global Training 2020

- Climate Reality Leader

The Explorer's Club

May 2020- Present

- Active member

Professional Association of Diving Instructors

April 2019- Present

Instructor Rachel Crane, Key Largo, FL, USA

- Active divemaster

Student Chapter President

June- December 2018

American Fisheries Society, Montreal, QC, Canada

- Presided over all meetings and chaired the executive committee
- Worked closely with the executive committee to recruit members, schedule events, organize activities, and secure sponsorships to provide a strong foundation for this newly established student subunit

Environment Committee Member

September 2015 - December 2018

Student Society of McGill University, Montreal, QC, Canada

- Organized tabling and fundraising events that focused on environment and university sustainability
- Assisted in recruitment and retention of members

SKILLS, CERTIFICATIONS, AND INTERESTS

Languages

- English (native), French (fluent), German (fluent), Spanish (basic)

Soft Skills

- Communication
- Positive Attitude
- Strong Work Ethic
- Adaptability
- Critical Thinking
- Teamwork

Hard Skills

- Research (proficient)
- Microsoft Office Suite (proficient)
- Adobe Creative Suite (proficient)
- RStudio (intermediate)
- ArcMap GIS (beginner)
- Java and Python (beginner)

Certifications

- PADI Divemaster (April 2019)
- OSHA Certification (January 2019)
- American Red Cross CPR and First Aid (December 2018)
- PADI Emergency Oxygen Provider (December 2018)
- W.H.M.I.S. 2015 Certification (May 2018)
- Pleasure Craft Operator License (May 2018)

Interests

- Camping
- Conservation and Restoration
- Creative Graphic Design
- Field Research
- Environmental Policy
- Hiking
- Kayaking
- Knitting
- Marine Biology
- Ornithology
- Coastal Ecosystems
- Travel
- Scuba Diving
- Sustainable Living Practices
- Ukulele
- Volleyball