Rachel Jiang

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M.S. Environmental Science and Policy, Northeastern University B.S. Marine Science, Boston University, 2020

WORK EXPERIENCE

New England Aquarium Aquarist (Floating Aquarist, Interactive Exhibits Aquarist)

- Excelled in efficient and effective multitasking, working both in a team and independently to prioritize, 0 evaluate, and execute working goals
- Applied efficient and creative problem-solving, critical thinking skills to troubleshoot advanced technical systems in a high-stress environment
- Educated and informed the public on conservation
- Generated reports on maintenance, observations, and treatment plans using TRACKS software
- Assisted in training of volunteers and interns
- Refined routine of scientific methodologies, best practices, and project management 0

New England Aquarium Intern, Volunteer

- Created and optimized a routine of daily care and husbandry for gallery exhibits
- Reviewed literature to gauge proper water quality parameters for Sea of Cortez exhibit and refine diet for IndoPacific exhibit

Kaufman Lab at Boston University Research Assistant

- Prepared for analysis of high-volume analysis of coral reef photomosaics
- Reviewed literature and executed a comparison study regarding adaptive radiation of *Cichlidae* fishes 0
- Acted as manager of aquatics lab, regularly sampled system water and executed environmental quality testing, managed team of students to participate in maintenance and feed routines

Tropical Climates & Coral Reefs Systems Lab at Boston University Research Assistant September 2017 - June 2018

- Processed wide range of Porites samples to study diagenesis in coral structures
- Assisted in Electron Microscopy to determine how South Pacific corals have been altered by ocean acidification

East Coast Divers Store Staff, Purchasing

- Maintained and populated excel documents of purchasing and inventory records 0
- Ensured organized inventory and punctual arrival of orders, developed connections with suppliers 0
- Provided customer support both in person, online, and via phone calls 0

Boston Roundtable English Immersion Program, Teacher, Program Coordinator

- Taught a flexible, multi-faceted approach to learning, encouraging creative thinking and problem solving 0
- Mentored program teachers on effective communication skills which transcend the language barrier

September 2020 - July 2021

November 2018 - May 2020

September 2020 - July 2021

July 2021 – August 2023

June 2017 - August 2018

Fitzgerald Sedimentology Lab, Boston, MA

- Developed GIS datasets to map distribution of samples 0
- Examined how suspended sediment sorts and migrates along the coast 0
- Sorted sand based on φ size using mechanical sieving 0
- Collected and analyzed samples to determine composition of sediment 0
- Participated in extracting salt marsh sediment cores to determine soil composition 0

Research on Offshore Energy, Cape Cod, MA

ArcGIS software experience and application to multiple, variable, real-world scenarios 0

- Assembled and assessed multifaceted dataset to determine what environmental gualities would output the greatest 0 success for offshore wind farms
- Presented findings to peers 0

NOAA | Stellwagen National Marine Sanctuary, Scituate, MA

- Studied the correlations between E. glacialis migration trends and shipping lanes in Stellwagen Bank 0
- Facilitated presentation on suggested alternatives to traditional fisheries tools to reduce potential of whale 0 entanglements
- Assisted in field work regarding Ammodytidae sampling and collection, Puffinis gravis tagging, and plankton tows at 0 Stellwagen Bank

Turneffe Atoll Sustainability Association, Turneffe Atoll, Belize

Conducted interviews with local Belizean fishermen to determine the economic impact of conch collecting on local 0 communities

Research on A. tenuifolia, Turneffe Atoll, Belize

- Independently designed experiments regarding the nature of A. tenuifolia health, color morph diversity, and 0 ecological niches
- Implemented transects, quadrats, conducted a census to calculate coral coverage and biodiversity in the area 0

Research on O. vulgaris, Turneffe Atoll, Belize

Investigated chromatophore dilation of Octopus vulgaris through independent experimental design 0

Finnerty Lab at Boston University, Boston University Field Sampling

Sampling of Mnenmiopsis leidyi at Woods Hole to collect parasitizing Edwardsiella lineata for the purposes of DNA extraction for investigating genetics

ADDITIONAL CERTIFICATIONS & SKILLS

First Aid/CPR/AED/O2 certification	٠	Proficient in MS Office	•	SSI SCUBA Advanced certifications

RELEVANT COURSEWORK

- **Geographic Information System**
- Elasmobranch Ecology and Conservation Ichthyology
 - Oceanography
- Sedimentology Marine Genomics

Marine Biology

Marine Biogeochemistry

January 2019 - May 2019

September 2019 - December 2019

September 2018

November 2018

November 2019

July 2019 - November 2019

June 2019 - August 2019