CAMERON OGDEN-FUNG

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EDUCATION

University of Hawaii at Mānoa, Honolulu, HI August 2019 - Present
- Master of Science in Natural Resources and Environmental Management at the College of Tropical Agriculture and Human Resources.

Bowdoin College, Brunswick, ME August 2013 - May 2017
- Bachelor of Arts in Earth and Oceanographic Science and Environmental Studies (coordinate major) and Chinese (minor). Diploma earned May 2017. GPA 3.74
- Senior Thesis (awarded departmental honors): Abundance and distribution of benthic organisms in mesophotic coral ecosystems across the Hawaiian Archipelago
- *Relevant Coursework*: Perspectives in Environmental Science, Multivariate Calculus, Building Resilient Communities, The Nature of Data, Sedimentary Systems, The Plate Tectonics Revolution, Biogeochemistry, Chemical Tracers in Oceans, Coastal Dynamics and Ecosystems, Oceanography, Equatorial Oceanography, and Earth Climate History

The School for Field Studies, Marine Resource Studies, Turks and Caicos Islands February 2016 - May 2016
- Conducted field research on coral reef ecosystems in order to support the local government and community of South Caicos.
- *Coursework:* Tropical Marine Ecology, Principles of Resource Management, Environmental Policy and Socioeconomic Values

RESEARCH EXPERIENCE

Coral Triangle Center (CTC) Bali, Indonesia August 2018 - May 2019
Conservation and Communications Intern
- Assisted with research and content on sustainable fisheries, effective marine protected areas, coral reef resilience, and interactive educational games in Indonesia.
- Further developed content for exhibitions and outreach programs at the CTC Center for Marine Conservation.
- Conducted reef health monitoring surveys at the Nusa Penida marine protected area.
- Participated in the Youth Leadership Summit at the 2018 Our Ocean Conference.

NOAA Pacific Islands Fisheries Science Center (PIFSC) Honolulu, HI May 2016 - May 2017
Ernest F. Hollings Scholar Intern
- Quantified the abundance and distribution of benthic organisms at mesophotic coral reefs (30-100 m) across the Hawaiian Archipelago by processing previously collected benthic photoquadrat images using standard imaging software (Coral Point Count with Excel extension).
- Performed routine statistical analyses in order to determine environmental and latitudinal trends in the composition of the major benthic organisms.
- Participated in a three-week research expedition in the Northwestern Hawaiian Islands to assist with topside support for diving operations and process collected samples.
- Continued the research project as a Bowdoin College Honors Project in the Department of Earth and Oceanographic Science.
- Presented at the 2016 NOAA Science and Education Symposium and 2017 ASLO Ocean Sciences Meeting: Mountains to the Sea.

The School for Field Studies, Marine Resource Studies South Caicos, Turks and Caicos Islands February 2016 - May 2016
Researcher
- Used a modified protocol from the Atlantic and Gulf Rapid Reef Assessment (AGRRA) to study the spatial and depth patterns of coral bleaching and disease for scleractinian coral species at thirteen reef sites surrounding South Caicos.
- Corroborated the current trend of increasing geographical extent of coral bleaching within the Caribbean basin and suggested that coral bleaching is likely to have extensive negative consequences for Caribbean reefs.

Coastal Dynamics and Ecosystems Research Project, Bowdoin College Brunswick, ME October 2016 - December 2016
Researcher
- Examined the influence of irradiance on phytoplankton size structures and relative photoacclimation in Harpswell Sound and Schoodic Peninsula, Maine.
- Departed on one-day research cruises to collect water samples at 5 m depth intervals for extracted chlorophyll analysis and take *in situ* measurements of chlorophyll fluorescence, photosynthetically active radiation, and particle concentration and size using the Laser *In Situ* Scattering and Transmissometer (LISST-100).

Building Resilient Communities Research Project, Bowdoin College Brunswick, ME October 2016 - December 2016
Researcher
- Mapped the spatial and temporal historical trends of the Maine lobster fishing industry from 1997 – 2015 using ArcGIS to discern shifts in spatial characteristics of the fishery.
- Examined the changes in lobster catch in pounds and values, number of trap tags, and license holders within each Maine Lobster Management Zone.

Hatfield Marine Science Center (HMSC), Oregon State University Newport, OR May 2015 - December 2015
NSF Research Experiences for Undergraduates (REU) Intern

- Studied the spatial distribution and abundance of ctenophores and their predation effect on copepods and potential effects on prey availability for co-occurring larval fish in the Straits of Florida using *In Situ* Ichthyoplankton Imaging System (*IS*IIS) density data.
- Participated in a three-week research cruise in the Straits of Florida to deploy MOCNESS 1 and 4, as well as the *IS*IIS in an eddy and spatial study.
- Continued the research project as a Bowdoin College Independent Study in the Earth and Oceanographic Science Department.
- Presented at the 2015 REU HMSC Summer Intern Marine Research Symposium and 2015 Bowdoin College Annual President's Science Symposium.

Biogeochemistry Research Project, Bowdoin College Brunswick, ME October 2015 - December 2015
Researcher

- Examined the role of wetland types on carbon storage and fluxes in Maine's wetlands, specifically evaluating four different wetland types in mid-coast Maine: freshwater marsh, tidal marsh, forest swamp, and peat bog.
- Analyzed the water content and carbon content of the soils using a Carbon Nitrogen analyzer, as well as carbon dioxide and methane concentrations emitted using a gas chromatograph.

Honors And Awards

- 2019 East-West Center Graduate Degree Fellowship
- 2018 Go OverSeas Gap Year Grant
- 2017 Arthur M. Hussey II Award (Earth and Oceanographic Science Department Senior Award)
- 2017 Cum Laude in Earth and Oceanographic Science
- 2016-2017 Sarah and James Bowdoin Scholar (Dean's List)
- 2015-2017 NOAA Ernest F. Hollings Undergraduate Scholarship Program
- 2014-2015 and 2015-2016 USA Rugby National Collegiate Academic Honor Roll
- 2014-2015 and 2015-2016 New England Small College Athletic Conference All-Academic Award
- 2013 Cum Laude Society
- 2013 Oregon Episcopal School Top Academic Achiever
- 2012 Stockholm Junior Water Prize Regional Award
- 2011-2012 Oregon Episcopal School Science Expo Second Place Winner
- 2011 International Sustainable World (Engineering Energy Environment) Project Bronze Medalist
- 2010 Regional Ricoh Sustainable Development Award

Skills And Additional Activities

- **Certifications:** SCUBA Stress & Rescue Diver and Enriched Air Nitrox Level 2, and Wilderness First Aid Afloat
- **Technical Skills:** Experienced in R, MATLAB, ArcGIS, NVivo, SPSS Statistics, and Mathematica
- **Language Skills:** Proficient in Mandarin Chinese
- **Additional Activities:** East-West Center Participant Association, East-West Center Exchange Program, South Caicos Marine Research Club, Bowdoin Women's Varsity Rugby Team and Green-Rep, Bowdoin Outing Club, Bowdoin Climate Action, Coalition for Expanding the Reach of Earth Sciences, and Bridge to Kids Mentoring

References

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