

Holly Kelchner

Education

- May 2020 **Master of Science in Renewable Natural Resources**
with an area of concentration in Fisheries and Aquaculture
Minor: Oceanography and Coastal Sciences
Louisiana State University, *Baton Rouge, Louisiana*, GPA: 3.70
- May 2017 **Bachelor of Science in Marine Biology**
University of Alaska Southeast, *Juneau, Alaska*, GPA: 3.25

Selected Research Experience

- Feb. 2020 - Present **Aquatic Research Analyst**
Cooperative Institute for Great Lakes Research (CIGLR), *University of Michigan*
- Organize and lead weekly sampling cruises (phytoplankton and water quality) during HAB season on both Lake Erie and Lake Michigan-Huron
 - Assist with laboratory and field experiments and maintain datasets, laboratory records, sample inventories, and standard operating procedures
- June 2019 - Feb. 2020 **Temporary Research Technician**, CIGLR, *University of Michigan*
- Aug. 2017- Aug. 2019 **Graduate Research Assistant**
School of Renewable Natural Resources, *Advisor: Dr. Reagan Errera, LSU*
- Conducted field-intensive research emphasis on phytoplankton ecology with a specific focus on harmful algae and food web dynamics
 - Improvised and assembled research collection materials with limited resources
 - Collaborated with All Out Africa to create educational material
- Apr. 2017- May 2017 **Seaweed Technician**
Research Director: Dr. Michael Stekoll, University of Alaska Southeast
- Evaluated decontamination methods of *Palmaria mollus* for commercial mariculture
- Aug. 2016 - Apr. 2017 **Marine Debris Accumulation Project**
Researcher, *Advisor: Dr. Heidi Pearson, University of Alaska Southeast*
- Conducted monthly debris accumulation surveys of two beaches in Juneau, Alaska to assess debris impact from residential and recreational use
- Sep. - Nov. 2016 **Lab Assistant**
Research Director: Dr. Sherry Tamone, University of Alaska Southeast
- Investigated hormonal and environmental cues associated with male-intermediate-female transition in *Pandalus hypsinotus* and assessed the use of *Pandalus platyceros* PCR primers for the isolation of *Pandalus hypsinotus* cDNA
- May - Sept. 2016 **Undergraduate Research Intern**
Principal Researcher: Alicia Schuler, University of Alaska Fairbanks
- Assisted in Alaska Sea Grant funded research evaluating the costs and benefits of commercial whale watching on marine cetacean behavior in Juneau, Alaska

Grantsmanships

- Stanley Graduate Student Excellence Award – *School of Renewable Natural Resources 2018 Recipient*
- BLaST Travel Grant, *Alaska Marine Science Symposium – January 2017 Recipient*
- “Effort” Award Scholarship, *Alaska Native Science and Engineering Program 2016 Recipient*
- Rodger Boyden Scholarship, *University of Alaska Southeast '16-'17 Recipient*
- Alaska Leadership Initiative Scholarship, *University of Alaska Southeast '15-'16 Recipient*

Publications

- Kelchner, H. A.**, Bargu, S., Reeve-Arnold, K., and Errera R.M. 2020. Environmental influences on the neurotoxin domoic acid in coastal Inhambane Province, Mozambique. *Harmful Algae. In prep.*
- Kelchner, H. A.**, Reeve-Arnold, K., and Errera, R. M. 2020. Impact of coastal upwelling on plankton community dynamics in Inhambane Province, Mozambique. *Marine Ecology Progress Series. In prep.*
- Bargu, S., Errera, R.M., **Kelchner, H. A.**, and Boudreaux, M. 2020. Influence of climatic warming on *Aphanizomenon flos-aquae* (formally *Anabaena flos-aquae*) blooms in Lake Pontchartrain, Louisiana. *Harmful Algae. In prep.*

Selected Presentations

- Kelchner, H. A.** and Errera, R. M. (2019, September) *Role of Coastal Environmental Conditions During Austral Winter on Plankton Community Dynamics and the Occurrence of Pseudo-nitzschia spp. and Domoic Acid in Inhambane Province, Mozambique.* Thesis defense presentation, *Baton Rouge, LA*
- Kelchner, H. A.**, Reeve-Arnold, K., Schreiner, K. M., Wagner, A. J., Roques, K., and Errera, R. (2018, December) *Spatial Analysis of Plankton Community and Nutrients in Coastal Environment of Mozambique.* Poster presentation. American Geophysical Union 2018 Fall Meeting, *Washington D. C.*
- Kelchner, H. A.** and Pearson, H. C. (2017, March), *Marine Debris Accumulation in Juneau.* BLaST Undergraduate Research Symposium, *Juneau, AK.*

Work and Teaching Experience

- Aug. 2017 - May 2019 **Graduate Teaching Assistant**, LSU, *Baton Rouge, LA*
- Provided support for RNR 1001 (Natural Resource Conservation), RNR 4101 (Integrating Natural Resource Management, Policy, and Human Dimensions), and RNR 4025 (Limnology) (approx. 180 students/semester)
- June - Aug. 2017 **Interpretive Naturalist I**, Minnesota Department of Natural Resources - Mystery Cave State Park, *Spring Valley, MN*
- Developed and delivered interpretive outreach programs centered in natural resource conservation
- Jan. - Apr. 2017 **Teaching Assistant**, Thunder Mountain High School, *Juneau, AK*
- Assisted with skeletal articulation of two juvenile *Orcinus orca*
- Dec. 2015 **Camaronal Wildlife Refuge Volunteer**, *Camaronal, Costa Rica*
- Communicated with visitors through public outreach in Spanish and English
- Aug. 2014 - May 2015 **Guest Service Representative**, SEALIFE Aquarium, *Bloomington, MN*

Leadership, Service, and Stewardship

- Jan. 2018 - Present **Society for Women in Marine Science Member**
- Feb. 2020 **Great Lakes National Ocean Sciences Bowl Volunteer**, *Ann Arbor, MI*
- July 2018 - Dec. 2019 **American Geophysical Union Member**
- Sept. 2017 - May 2019 **Women in Science @ LSU**, *Louisiana State University*
- Social Committee Director (April 2018 – May 2019)
- Oct. 2017 & 2018 **Ocean Commotion Volunteer**, *Louisiana Sea Grant, Baton Rouge, LA*
- June 2018 **Tofo World Oceans Day Volunteer**, *Tofo, Mozambique*
- Sep. 2017 **Coastal Clean Up Day Volunteer**, *Bayou Sauvage National Wildlife Refuge*
- Jan. 2016 - May 2017 **Alaska Native Science and Engineering Program (ANSEP) Member**
- Feb. - Apr. 2017 **Director of Student Relations**, *March for Science - Juneau, AK*
- Initiated and hosted March for Science event at Alaska State Capitol
- Sep. 2015 - Apr. 2016 **Alaska Leadership Initiative Alumni**, *University of Alaska Southeast*
- Sep. 2013 - Apr. 2015 **Colleges Against Cancer**, *University of St. Thomas*
- Team Recruitment and Development Director (August 2014 – April 2015)