

Education

Yale University | New Haven, Connecticut

PhD, Ecology and Evolutionary Biology, exp. June 2019

Title: “Investigating patterns and processes of evolution and ecology in carangiform fishes”

University of Alaska Fairbanks, School of Fisheries and Ocean Sciences | Juneau, Alaska

M.S., Fisheries, August 2014

Title: “Spatiotemporal variation of benthic communities on weathervane scallop beds with socioeconomic considerations of the commercial fishery off the coast of Alaska”

Yale University | New Haven, Connecticut

B.S., Ecology and Evolutionary Biology, May 2010

Title: “Phylogenetic resolution of the barcheck darters using nuclear genes and species tree inferences”

Awards: Yale Club of New Haven Senior Essay Prize, Berkeley College Senior Leadership Award

Research and Project Management Experience

Yale University, Department of Ecology and Evolutionary Biology | (2014 – present)

PhD Graduate Researcher

- Organize and complete extensive fieldwork in remote locations (South Africa, Mozambique, Seychelles)
- Developed a biological database of hundreds of fish samples collected worldwide by myself and collaborators
- Authored and received competitive funding fellowships from the National Science Foundation and USAID
- Awarded 1st and 2nd place prizes at international conferences for oral and poster presentations

South African Institute for Aquatic Biodiversity | (2012 – present)

Affiliate Scientist

- Collaborate with governments, non-profit organizations, and recreational fishermen in eastern Africa
- Manage collection and processing of genetic samples from collaborators throughout the Indo-Pacific
- Co-advise an MSc student on a population genomics study of recreationally-important bonefish
- Author peer-reviewed publications with scientists and students

Yale Molecular Systematics and Conservation Genetics Center | (2014 – 2016)

Project Co-PI

- Led interdisciplinary research project using ancient DNA to investigate the identity of a famous specimen from the Yale Peabody Museum of Natural History collection
- Co-authored peer-reviewed publication (PLOS One) and successful grant proposal (The Explorers Club)
- Conducted numerous post-publication interviews with media outlets including The New York Times, NPR, PBS, The Atlantic, and multiple podcasts

University of Alaska Fairbanks, School of Fisheries and Ocean Sciences | (2011 – 2014)

M.S. Graduate Researcher

- Utilized multivariate statistical methods to conduct analyses on the ecology and socioeconomic status of a commercial scallop fishery in Alaska
- Collaborated with government (NOAA, ADF&G), non-profit, and industry stakeholders
- Attended meetings of the North Pacific Fishery Management Council and Scallop Plan Team
- Engaged stakeholders in research through private meetings and presentations
- Published results in peer-reviewed journals and presented at over 10 national and international conferences

Scientific Communication and Leadership

South African Institute for Aquatic Biodiversity | (2015 – 2018)

- Delivered talks on marine fisheries research to broad audiences in South Africa and Seychelles
- Organized weekly genetics lab meetings, including readings and discussion of novel methods
- Led workshop to the Seychelles Fishing Authority on the ecological software PRIMER
- Designed and led a CV writing workshop to South African graduate students in ichthyology

Head Graduate Affiliate, Berkeley College, Yale University | (2017 – 2018)

- Organized mentoring and social events for 20 graduate students and 400 undergraduates including “Grad School 101” workshops, study breaks, and guidance on course selection

Yale Peabody Museum of Natural History | (2014 – present)

- Deliver public gallery talks to museum visitors and volunteers (audiences of 50+ members)
- Construct presentations and hands-on activities to teach middle school and high school students about evolution
- Presented to the ‘Evolution After School Program’ for talented high schoolers and chaperoned aquarium trip

Women in Science at Yale | (2014 – present)

- Mentor undergraduate women interested in ecology and evolutionary biology
- Assist mentees with summer fellowship proposals, course selection, and field and lab opportunities

New Haven Science Fair | (2014 – 2015)

- Mentored two classes of junior high school minority students
- Assisted students with project design, data collection, analysis, and presentation
- Seventh grade student team received 2nd place award

Teaching Experience

Yale University Graduate Teaching Fellow | (2015 – 2018)

- Led weekly sessions, prepared and graded course materials, supervised undergraduate research projects and writing assignments, and met with students individually for guidance on projects
- Designed and led laboratory course for ichthyology by selecting museum specimens, writing and grading exams, organizing field trips, and delivering weekly presentations
- Implemented a variety of teaching tools (multi-media, museum specimens, scientific papers)
- Received excellent student reviews for teaching and enthusiasm
- Courses taught: Genes and Development, Introduction to Ecology and Evolutionary Biology, Ichthyology, Laboratory for Ichthyology

Skills

- **Analytical:** bioinformatics and high-powered computing, database management, phylogenomics analysis
- **Coding:** R (including GIS applications), python
- **Software:** PRIMER, QGIS
- **Relevant Courses:** Management of Non-Profit Organizations, Marine Ecosystem Sustainability, Coastal Governance, Innovative Approaches to Marine Ecosystem Management, Traditional Ecological Knowledge

Extracurricular Interests

- **Hobbies:** distance running (marathon winner), horse polo (former Yale Women’s Captain), travel (visited all 50 states and 21 countries)
- **Memberships:** The Explorers Club
- **Languages:** proficient fluency in German (10 years of coursework), novice in isiZulu (2 years of coursework)