

Ruby Krasnow

EDUCATION

Clark University, Worcester, MA

Expected: Dec. 2024

Bachelor of Arts in Biology, Minor in Mathematics

GPA: **4.0** - Dean's List First Honors

Activities: Varsity Cross Country, Board of Trustees Academic Affairs Committee Student Rep.

Marine Biological Laboratory (University of Chicago), Woods Hole, MA

Aug. - Dec. 2023

Semester in Environmental Science

RESEARCH EXPERIENCE

NOAA Ernest F. Hollings Internship

May 2024 - present

Northeast Fisheries Science Center, Woods Hole, MA

- Conducted full systematic review of methods previously used to model crustacean size at maturity
- Evaluated the performance of both clustering- and piecewise regression-based size at maturity modeling approaches through simulation testing on artificial datasets with known parameters
- Quantified and visualized spatial variation in Jonah crab size at maturity using a novel methodology based on Gaussian mixture model clustering and spatial logistic regression

BRITE NSF-REU (Research Experience for Undergraduates)

June - Aug. 2023

Bioinformatics Program and Department of Biology, Boston University, Boston, MA

- Analyzed trawl survey data on Jonah crab and other benthic species in the Gulf of Maine
- Wrote R code for novel spatial extensions of Empirical Dynamic Modeling, a nonparametric method of representing and forecasting nonlinear dynamical systems
- Employed a variety of spatiotemporal data science techniques, including linear mixed-effects models, generalized additive (mixed) models, and autoregressive/ARIMA time series models

Aquaculture Research Intern

May 2022 - Aug. 2022

University of Maine/Darling Marine Center, Walpole, ME

- Designed and conducted project investigating effects of cultivation method and environmental conditions on oyster mortality, growth, appearance, and biofouling
- Collected, analyzed, and visualized all biological and environmental data
- Presented scientific poster at 2022 SEA Fellows Symposium (Downeast Institute, Beals, ME)
- Served as acting manager at commercial oyster farm, ensured survival of over \$1 million in oysters

OTHER EXPERIENCE

Science Communication Intern

Nov. 2022 - Present

American Fisheries Society (AFS) Climate Ambassador Program

Peer Reviewer

Sept. 2021 - May 2022

Clark University Scholarly Undergraduate Research Journal

Aquaculture Consultant & Program Assistant

Dec. 2020 - Sept. 2022

Alabama Sustainable Agriculture Network

Technology & Communications Intern

July 2020 - May 2021

Conservation Alabama

SKILLS & ACCOMPLISHMENTS

Computer: R (advanced), Git/Github, Microsoft Office, Google Suite

Languages: English (fluent), Spanish (conversational)