**Robert N. Jarrett II**

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**EDUCATION**

**University of Maine, Orono, ME** Exp. May 2024

Dual Degree: Ph.D. Marine Biology, M.S. Marine Policy, GPA: 3.96

**Rutgers University, New Brunswick, NJ** 2015 — 2018

B.S. Marine Sciences, Biological Oceanography Option, GPA: 3.651

**Brookdale Community College, Lincroft, NJ**  2013 — 2015

A.S. Mathematics/Science Program, Science Option, GPA: 3.99

**RELEVANT COURSES**

Fisheries Policy and Management

Fisheries Population Dynamics

Marine Resource Management

Principles of Geographic Information Systems

Spatial Analysis

Occupancy Modeling

Biological Oceanography

Physical Oceanography

Biophysical Interactions

Animal Physiological Ecology

Agent Based Modeling

Coral Reefs

**RESEARCH EXPERIENCE**

**Graduate Assistant, University of Maine, Steneck Lab**

American Lobster Demography Study May 2019-Present

* Sampling lobster abundance and habitat use along coastal Maine
* Leading dive team to conduct quadrat sampling
* Conducting remotely operated vehicle video transects of lobster habitat
* Classifying benthic substrate habitats using random forests and multibeam echosounder data
* Modelling lobster distribution using a generalized additive and individual based models

American Lobster Shelter Behavior Study

* Examining effect of low oxyegn and algae species on adult lobster shelter selection
* Conducting experiment of benthic habitat effects on postlarval lobster sounding behavior

**Intern, Maine Department of Marine Resources** Mar-May 2021

Gillnet Fishery and North Atlantic Right Whale Project

* Create gear materials and configuration survey
* Conduct survey by email and phone with New England fisherman

**Research Assistant, Haskin Shellfish Research Laboratory**

Bivalve Larvae Swimming Study Feb-May 2019

* Recorded video of oyster and scallop larvae swimming in a 3-dimensional environment
* Assisted in general maintenance of laboratory and other research projects

**Student Research, Rutgers University Department of Marine & Coastal Sciences**

Marine Protected Area GIS Study Jan-May 2018

* Georeferenced MPA maps and regulatory zones in ArcGIS
* Determined the regulatory zones of data collected

MongolianTaimen Tagging Study Sept-Dec 2017

* Plotted paths of tagged taimen in R of multiyear dataset
* Determined home range size and seasonal migration of taimen

**Research Assistant, Rutgers University Asphalt Pavement Lab**

Porous Concrete Study Nov-Dec 2017

* Cut and prepared core and brick samples of porous concrete
* Tested samples to determine specific gravity and permeability using constant head

**Maryland Sea Grant REU Fellow, University of Maryland Chesapeake Biological Lab**

Chesapeake Bay Anoxic Volume Forecasting May-Aug 2017

* Developed statistical model of anoxic volume of Chesapeake Bay
* Applied a residual bootstrap to improve forecasting performance
* Generated prediction of anoxic volume for 2017 NOAA press release

**Volunteer, Rutgers University Department of Marine & Coastal Sciences**

Fish Ladder Passage of Anadromous Fish Study Apr-May 2017

* Used seines and hook and line fishing to collect fish on the Raritan River
* Assisted in tagging river herring and American shad using PIT tags

**Research Assistant, Rutgers University Asphalt Pavement Lab**

Albedo and Solar Radiation Flux of Asphalt Pavement Study May-Aug 2016

* Set up data collection system of radiometers and thermocouples for asphalt and concrete slabs
* Analyzed and plotted data determining heat flux and radiative solar flux

**PUBLICATIONS**

Allen, M., & Clark, J. (Eds.). (2018). *Maryland Sea Grant Research Experiences for Undergraduates Final Student Papers Summer 2017* (UM-SG-TS-2017-01; pp. 61–75). Maryland Sea Grant College.

**PRESENTATIONS**

Jarrett, R., Steneck, R. (2020). *Are lobster habitats changing as an indirect effect of climate change?* [Oral presentation]. Lobster Research Collaborative Meeting, Boothbay Harbor, ME.

Jarrett, R., Lyubchich, V. (2017). *Predicting anoxic volumes of Chesapeake Bay: Utilizing bootstrapping to improve forecasts.* [Poster]. Coastal and Estuarine Research Federation Biennial Conference, Providence, RI.

**AWARDS, GRANTS, & HONORS**

Lobster Institute Graduate Fellowship ($15,627 USD) 2021

UMaine Graduate Student Government Research Grants ($3,617 USD) 2019-2021

Maryland Sea Grant Research Experience for Undergraduates Fellowship 2017

**RELATED EXPERIENCE**

UMaine Graduate Student Government Deputy Grants Officer 2021-2022

School of Marine Sciences Symposium Planning Committee Member 2021

AFS Hutton Program Application Review Committee Member 2021

Co-editor of AFS Northeastern Division Newsletter 2021

UMaine Graduate Student Government Grant Reviewer 2019-2020

UMaine Marine Ecology Graduate Teaching Assistant Fall 2020

Maine DMR Lobster Research Collaborative Researcher 2019-2020

ICES Stock Assessment Advice Drafting Group Member 2020

**SKILLS**

* Proficiency in R Statistical Programming, NetLogo, QGIS, Microsoft Office
* Experience with Individual Based Models, Occupancy Models, Kriging, Machine Learning
* Experience in fish sampling methods using rod and reel, seining, and trawling
* Strong seamanship, NJ Boating Safety Certificate, U.S. Sailing Level 1 Small Boat Instructor
* PADI Rescue Diver, AAUS Scientific Diver, DAN CPR/First Aid