

2022 GMRI Research Experience for Undergraduates (REU) Annual Research Symposium

Thursday August 4th, 1:00 – 4:00

The GMRI REU Site, funded by the National Science Foundation, focuses on *'integrated studies in a rapidly warming fishery ecosystem'*. The REU class of 2022 has worked hard all summer on a range of topics related to the Gulf of Maine fishery ecosystem and coastal communities. At this year's annual symposium, you will hear about projects that: take a close look at climate-induced distribution shifts in northeastern fisheries; examine factors that influence species vulnerability to climate change; look at how sea-level rise will affect coastal infrastructure (with a particular emphasis on our own Union Wharf); inform the design and development of authentic informal learning experiences in coastal ecology; explore the use of acoustics as a tool for mapping blue mussels in Casco Bay; look at factors that influence oyster condition and marketability; consider tuna tagging data to investigate movement behavior; and examine factors that affect bluefin tuna stock mixing in the Gulf of Maine. We hope you can join us to hear more about this new and exciting research!

- 1:00 – 1:05 **Graham Sherwood**, GMRI Research Scientist and REU program lead: Intro and opening comments
- 1:05 – 1:25 **Amy Tramontozzi**, University of Edinburgh: *Distribution and concentration of northeastern U.S. fishery landings revenue following climate-induced species distribution shifts.*
- 1:25 – 1:45 **Emily Vasquez**, Monmouth University: *Fish climate vulnerability assessments and dam removal in the highly vulnerable diadromous fish story.*
- 1:45 – 2:05 **Connor Steinke**, University of Wisconsin, Madison: *Towards an adaptive Union Wharf flood management strategy that considers sea level rise.*
- 2:05 – 2:25 **Fiona Chlebeczek**, University of Rhode Island: *Exploring middle school students' conceptions of variability and sample to inform the design and development of authentic informal learning experiences in ecology.*
- 2:25 – 2:35 Break
- 2:35 – 2:55 **Adepoju Arogundade**, Bowdoin College: *Differentiation of Blue Mussel (*Mytilus edulis*) habitats from benthic substrate via split-beam echosounding in Casco Bay, Gulf of Maine.*
- 2:55 – 3:15 **Carrick Brown**, Binghamton University: *The effects of where and how Atlantic oysters (*Crassostrea virginica*) are grown on oyster health and shape desirability.*
- 3:15 – 3:35 **Rory Hannon**, Southern Maine Community College: *Analysis of electronic tag data for Atlantic bluefin tuna (*Thunnus thynnus*) in the northwest Atlantic.*
- 3:35 – 3:55 **MeiLin Precourt**, University of Hawaii at Manoa: *Evaluating factors influencing bluefin tuna (*Thunnus thynnus*) stock mixing in the Gulf of Maine.*

****Thank you for attending! And thank you to all who helped make our program a success!****