Jacquelyn Veatch, Ph.D.

https://jackieveatch.github.io/professional_site/

EDUCATION

Doctor of Philosophy, Physical Oceanography 2019-2024
Rutgers University, Department of Marine and Coastal Science
Physical Drivers of Food Web Focusing, Advisor: Dr. Josh Kohut

Bachelor of Science, Biophysics 2015-2019
The George Washington University
University Honors Program, minor in Sustainability

PROFESSIONAL EXPERIENCE

NSF OCE Postdoctoral Research Fellow Nov 2024-present
Woods Hole Oceanographic Institution, Department of Applied Ocean Physics & Engineering

Graduate Assistant 2019-2024
Rutgers University, Department of Marine and Coastal Science

Undergraduate Research Assistant 2017-2019
Department of Biology, The George Washington University

Conservation Policy Intern 2018-2019
Environment America

Wilderness Counselor 2017, 2019
Moose River Outpost, Wilderness Intensive Leadership Development

Undergraduate Research Assistant 2015-2017
Department of Microbiology, Immunology & Tropical Medicine, The George Washington University

Custom Antibody Production Intern 2015, 2016
Cell Signaling Technology

PEER REVIWED PUBLICATIONS

Veatch, J., McGillicuddy, D., Oliver, H. 2026, *Finite Lyapunov Exponents and their Application to Ocean Dynamics: Toward A Practical Framework for Implementation and Parameter Selection* sumbitted to Progress in Oceanography

Lilian A. Dove, Michael Wood, Alexandra M. Ravelo, Jacquelyn M. **Veatch**, Robert S. Pickart, Peigen Lin, Lauren W. Juranek, Lee W. Cooper, Seth L. Danielson, Motoyo Itoh, Ben G. Kopec, Robert Puya Schaeffer, Jeffrey M. Welker. 2026, *An Exceptionally Fresh Chukchi Sea in Summer 2024 Driven by Intense Precipitation and Late-season Sea Ice Melt* sumbitted to JGR Oceans

Veatch, J., Cruz, E., Bulusu, S. 2026, *A Comparative Analysis of Eulerian and Lagrangian Front Detection Methods in the Southern Ocean* in prep.

Veatch, J., Fredj, E., Oliver, M., Roarty, H., Kohut, J., 2025, *Attractive Lagrangian Features in the Mid-Atlantic Bight: Using Lagrangian Coherent Structures to Describe Seasonal and Interannual Changes in Circulation* Journal of Geophysical Research: Oceans,130,e2025JC022447. https://doi.org/10.1029/2025JC022447

McKee, D., **Veatch, J.,** Kavanaugh, M., Kohut, J., Doney, S., 2025 *Disentangling advection and Lagrangian evolution of surface chlorophyll in a nearshore submarine canyon using remote sensing and high-frequency radar* Journal of Geophysical Research: Oceans,130, e2024JC022101. https://doi.org/10.1029/2024JC022101

Veatch, J., Oliver, M., Fredj, E., Statscewich, H., Bernard, K., Hann, A., Voirol, G., Fuchs, H., Fraser, W., Kohut, J., 2025 *Lagrangian coherent structures influence the spatial structure of marine food webs*. Commun Earth Environ Vol. 6, p. 127. doi: 10.1038/s43247-025-02101-x

Veatch, J., Kohut, J., Oliver, M., Statscewich, H., Fredj, E., 2024, *Quantifying the role of sub-mesoscale lagrangian transport features in the concentration of plankton in a coastal system* ICES Journal of Marine Science, 2024, Vol. 0, Issue 0, 1-14 doi: 10.1093/icesjms/fsae036

De la Reguera, E., **Veatch, J**., Gedan, K., Tully, K.L., 2020, *The effects of saltwater intrusion on germination success of standar and alternative crops*. Environmental and experimental botany. doi: 10.1016/j.envexpbot.2020.104254

OTHER PUBLICATIONS

Fredj, E., **Veatch, J.**, Oliver, M., Statscewich, H., Bernard, K., Hann, A., Voirol, G., Fuchs, H., Fraser, W., Kohut, J., 2025, "Small-Scale Currents Focus Marine Food Webs in Palmer Deep Canyon" *In OCEANS 2025 Brest*, BREST, France, 2025, pp. 1-6, doi: 10.1109/OCEANS58557.2025.11104686.

Roarty H., Kohut, J., Stolarz, T., Smith, M., **Veatch, J.**, Handel, E., Glenn, Scott., 2024 "The History of Oceanographic High Frequency Radar at Rutgers University," *2024 IEEE Radar Conference (RadarConf24)*, Denver, CO, USA, 2024, pp. 1-6, doi: 10.1109/RadarConf2458775.2024.10548298.

Veatch, J., Kohut, J., Fredj, E., Oliver,M. 2023, "High Frequency Radars Observe Krill Feeding: Using Lagrangian Coherent Structures to Detect Food Web Focusing," *In* OCEANS 2023, Gulf Coast, Biloxi, MS, USA, 2023, pp. 1-4 doi: 10.23919/OCEANS52994.2023.10337046.

Veatch, J., Fredj, E., and Kohut, J. 2022, "High Frequency Radars as Ecological Sensors: Using Lagrangian Coherent Structures to Quantify Prey Concentrating Features," *In* OCEANS 2022, Hampton Roads, Hampton Roads, VA, USA, 2022, pp. 1-7 doi: 10.1109/OCEANS47191.2022.9977356.

FUNDING AQUISITION

NSF Division of Ocean Sciences Postdoctoral Research Fellowship ($417,619)……2024-2026
National Research Council Postdoctoral Award (2 years of support, offered but declined)……May 2024
Polar Science Early Career Community Office Community Support Micro-grant ($1,000)……2025

PENDING PROPOSALS

NSF Biological Oceanography, **Veatch, J**., Barun, C., Gawarkiewics, G……February 2026
"Investigating Circulation-Driven Ecosystem Shifts in a Coastal Habitat: linking animal habitat use to changing ocean fronts and eddies"

TEACHING & MENTORING

Sea Education Association, visiting faculty Summer 2026

- Co-teaching Pre-College *Introduction to Oceanography*, leading students through independent research projects and local field campaigns, development of course material
- Guest lecturer for *Ocean Plastics and Biodiversity* course

Programming in Earth Science Classrooms Educational Workshop (PECES) January 2026

- Organized a three-day collaborative workshop through instructive and interactive sessions

- Prepared early careers to confidently incorporate programming into their Earth science curricula, with a focus on the greater Boston area

Graduate Climate Conference, Python for Climate Science Workshop Instructor November 2025

- Planned and lead an interactive workshop session covering tools and best practices for data analysis

Falmouth Academy Computer Science Faculty Fall 2025-present

- Developed and taught high school elective in computer science (Python)
- Built online server to host JupyterHub working environment for interactive class time

Marine Technology Society micro-credential program Summer 2024, 2025

- Guest lectured on applications of High Frequency Radars to students interested in marine tech careers

Rutgers Department of Marine and Coastal Science

How to Build a Habitable Planet Fall 2023

- Developed an upper-level undergraduate course on the scientific story of creation, using past climates to contextualize modern climate change

Rutgers Marine Science Undergraduate Student Mentor Program September 2021- May2024

Research Internships in Ocean Science, Graduate Student Mentor June 2022-August 2022

- Guided twelve undergraduates through their summer research projects
- Ran weekly workshops on data analysis, science communication, and career development

Ocean Methods and Data Analysis, Teaching Assistant Spring 2022

- Ran laboratory section of course, instructing students through instrument deployments and data analysis
- Developed introductory Python programming lectures and exercises

High School Science Talk Tour, *The Antarctic Food Web* September 2021-2023

- Presented at 8 middle and high school science classrooms exposing students to careers and current research in marine science, relating their current curriculum directly to Antarctic marine research

Rutgers Education Opportunity Fund, Calculus Tutor September-December 2022

Introduction to Oceanography, Teaching Assistant Fall 2021

- Engaged non-major undergraduates in a virtual classroom environment

Introduction to Physical Oceanography, Teaching Assistant Fall 2020, Fall 2021

- Ran virtual (2020) and in-person (2021) recitations focused on problem solving, guest lectured

Software Bootcamp (Python), Teaching Assistant August 2020

- Facilitated small group discussions and problem solving amongst students in a virtual environment

George Washington University Physics Department, Undergraduate Learning Assistant

Modern Physics Laboratory January 2019-May2019

Electromagnetic Theory I September 2018-December 2018

Intro to Electromagnetism September 2017- May 2018

Life Pieces to Masterpieces, Friday Volunteer Instructor, *Physics is Everywhere* 2017-2019

FIELD AND LAB EXPERIENCE

GoMarie2025 Field Campaign with the Ocean Research Project

Arctic Expedition onboard the RV Marie Tharp June 2025

- Executed a 14-day cruise in five fjords around southwest Greenland aboard a 72-foot schooner
- Took leadership on setting up and troubleshooting two ADCPs (300kHz and 600kHz), conducting 24 hours of repeat transects near the head of each fjord, resolving tidal and diurnal cycles in melt water flow to compliment gas flux measurements

UNOLS Early Career Chief Scientist Training Program

Arctic Expedition onboard the USCGC Healy October 2024

- Planned and executed a 10-day cruise in the Chukchi Sea with an interdisciplinary team of early career scientists
- Took leadership on coordinating a transect through a previously unmapped canyon on the Chukchi shelf break, including CTD rosette casts, plankton nets, multicores, and multibeam mapping

Rutgers Department of Marine and Coastal Science, Center for Ocean Observing Leadership

Team SWARM Antarctic Field Season, Lawrence M. Gould Research Vessel February 2023-March 2023

- Retrieved three High Frequency Radars and Remote Power Modules using coordinated land, small boat, and vessel operations

Glider Operations in Martinique November 2022

- Serviced and deployed a glider monitoring inflow to the Caribbean Sea and contributions to AMOC

Horseshoe Crab Survey in the Delaware Bay July 2022

- Collected Horseshoe Crab egg samples during nighttime surveys to monitor prey availability for migratory birds

Microplastics in the Delaware Bay May 2022

- Collected zooplankton samples through strategic net tows, collected fecal pellets for plastic detection
- Adapted sample plan based on real-time data from hydrographic surveys

Team SWARM Antarctic Field Season, Palmer Station February 2020-March 2020

- Installed, collected, and analyzed data from three High Frequency Radars
- Deployed, maintained, and analyzed data from three Slocum Gliders
- Collected and analyzed data from small boat surveys using towed ACROBAT, EK-80, and net tows

Palmer Long Term Ecological Research, Lawrence M. Gould Research Vessel January 2020-February 2020

- Analyzed samples collected from CTD Rosette using filters, Imaging Flow Cytobot, and FIRe

Senior Capstone Project, George Washington University May 2018-May 2019

Effects of Osmotic Potential and Ionic Toxicity on Water Uptake Mechanisms in Germination of Crop Seeds

- Designed and conducted experimentation and data analyses, presented findings for academic audiences

Biology Department, George Washington University

Undergraduate Field and Greenhouse Research Assistant September 2017-May 2019

Department of Microbiology, Immunology, and Tropical Medicine, George Washington University

Cell Culture and Mouse Breeding Assistant September 2015-May 2017

Cell Signaling Technology, Beverly MA

Summer Intern, Custom Antibody Production June 2016- September 2016

Summer Intern, Antibody Production and Tissue Culture June 2015- September 2015

PUBLIC DATASETS & SOFTWARE

Veatch, J. (2025). Fillgaps_MARACOOS: Fillgaps in HFR for "Attractive Lagrangian Features in the Mid-Atlantic Bight" (Version 1): Zenodo. Retrieved from https://doi.org/10.5281/zenodo.16740812

Veatch, J. (2025). FTLE_MAB_modifiedToolbox: Attractive Lagrangian Features in the Mid-Atlantic (Version 1). Zenodo. Retrieved from https://doi.org/10.5281/zenodo.16740798

Bernard, K. S., Hann, A., **Veatch, J.** (2025) Krill swarms detected with active acoustic EK80 onboard small boat surveys in Palmer Deep Canyon, Antarctica during January-March 2020. Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) doi:10.26008/1912/bco-dmo.949922.1

Statscewich, H., **Veatch, J**. (2023) Water temperature, salinity, and optical properties from an Acrobat towed vehicle from bi-weekly grids conducted at Palmer Station, Antarctica in 2020. Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) http://lod.bco-dmo.org/id/dataset/916046

Veatch, J., Klinck, J. M., Oliver, M., Statscewich, H., Kohut, J. (2024) Results from Finite Time Lyapunov Exponent calculations using High Frequency Radar observed surface currents around Palmer Deep Canyon from January to March of 2020. Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) doi:10.26008/1912/bco-dmo.917914.1

Veatch, J., Klinck, J. M., Oliver, M., Statscewich, H., Kohut, J. (2024) High Frequency Radar (HFR) observed surface currents at Palmer Deep Canyon in the coastal ocean west of the Antarctic Peninsula in 2020. Biological and Chemical Oceanography Data Management Office (BCO-DMO). doi:10.26008/1912/bco-dmo.917884.1

Veatch, J., Klinck, J. M., Oliver, M., Kohut, J., Statscewich, H. (2024) Relative Particle Density (RPD) calculations using High Frequency Radar (HFR) observed surface currents around Palmer Deep Canyon from January to March of 2020. Biological and Chemical Oceanography Data Management Office (BCO-DMO). (Version 1) doi:10.26008/1912/bco-dmo.917926.1

AWARDS

Polar Early Career World Summit travel grant ($900)……2025
ASLO Ecological Dissertations in the Aquatic Sciences (Eco-DAS) travelship……2025
Early Career Arctic Chief Scientist Training Cruise Participant……Summer 2024
Mid-Atlantic Chapter of the American Fisheries Society Student Presentation Competition Winner……Nov 2023
PEO Fellowship, New Jersey National Nomination……April 2023
Rutgers Graduate Student Organization of the Year, Served as President of organization……21-22 & 22-23 AY
OCEANS 2022 Student Poster and Paper Competition, First Place Prize ($3,000 & Travel Scholarship)……October 2022
Marine Technology Society EMERGE Laureate (Travel Scholarship)……October 2022
Rutgers Three Minute Thesis Competition, Third Place……March 2022
Ocean Hack Week at Bigelow Laboratory for Ocean Sciences (Travel Scholarship)……August 2021
Peverley Prize in Experimental Physics from the George Washington University……May 2019
George Washington University Research Days Award, Second in Ecology……April 2019
George Washington Undergraduate Research Experience Award ($500)……2017-2018 Academic Year

RESEARCH SEMINARS

[+]invited speaker

Jacquelyn Veatch, Hugh Roarty, Matt Oliver, Erick Fredj, Josh Kohut, Dennis McGillicuddy, Hilde Oliver *Identifying Fronts In Energetic Flows Through Remotely-Sensed Ocean Velocity Data: spatiotemporal patterns and ecological consequences* WHOI Physical Oceanography Department Seminar, September 2025

Jacquelyn Veatch[+], Hugh Roarty, Matt Oliver, Erick Fredj, Josh Kohut, Dennis McGillicuddy, Hilde Oliver *Identifying Fronts In Energetic Flows Through Remotely-Sensed Ocean Velocity Data: spatiotemporal patterns and ecological consequences* Mentoring Physical Oceanography Women to Increase Retention Seminar Speaker at NASA Goddard Space Flight Center, September 2025

Jacquelyn Veatch[+], Matt Oliver, Erick Fredj, Kim Bernard, Ashley Hann, Grant Voirol, Heidi Fuchs, William Fraser, Josh Kohut *Fine scale ocean features influence the spatial structure of a coastal marine food web* University of Rhode Island Graduate School of Oceanography Physical Oceanography Department Seminar, February 2025

Jacquelyn Veatch[+], Matt Oliver, Erick Fredj, Kim Bernard, Ashley Hann, Grant Voirol, Heidi Fuchs, William Fraser, Josh Kohut *Fine scale ocean features influence the spatial structure of a coastal marine food web* Gulf of Maine Research Institution, February 2025

Jacquelyn Veatch, Matt Oliver, Erick Fredj, Kim Bernard, Ashley Hann, Grant Voirol, Heidi Fuchs, William Fraser, Josh Kohut *Fine scale ocean features influence the spatial structure of a coastal marine food web* WHOI Applied Ocean Physics & Engineering Seminar, January 2025

Jacquelyn Veatch, Matt Oliver, Erick Fredj, Heidi Fuchs, Rebecca Jackson, Josh Kohut *Physical Drivers of Marine Food Web Focusing* Rutgers Department of Marine and Coastal Science Department Dissertation Defense July 2024

Jacquelyn Veatch, Matt Oliver, Erick Fredj, Heidi Fuchs, Rebecca Jackson, Josh Kohut *Physical Drivers of Marine Food Web Focusing* Rutgers Department of Marine and Coastal Science Department Seminar May 2021

CONFERENCE PRESENTATIONS

*undergraduate student
++best presentation/paper award

Jacquelyn Veatch, Dennis McGillicuddy, Hilde Oliver *Observing Episodic Contribution of Antarctic Circumpolar Current Fronts to Southern Ocean Biologically Mediated Carbon Fluxes* Ocean Sciences Meeting 2026, Poster Presentation February 2026

Isabella Moore, Josh T Kohut, Laura Nazzaro, Jacquelyn Veatch, Doug Nowacek, Matthew J Oliver, Dan Engelhaupt *Identifying fronts that influence the dynamic habitat ecology from phytoplankton to whales in the Mid Atlantic Bight* Ocean Sciences Meeting 2026, Poster Presentation February 2026

Jacquelyn Veatch++, Dennis McGillicuddy, Hilde Oliver *An Oceanographer's Guide to Lyapunov Exponents* WHOI Postdoctoral Seminar 2026, Oral Presentation February 2026

Jacquelyn Veatch, Hugh Roarty, Matt Oliver, Erick Fredj, Josh Kohut *A Lagrangian Perspective on Circulation in the Mid-Atlantic Bight* Coastal Dynamics Gordon Research Conference, Poster Presentation June 2025

Jacquelyn Veatch, Hugh Roarty, Matt Oliver, Erick Fredj, Josh Kohut *A Lagrangian Perspective on Circulation in the Mid-Atlantic Bight* NYSERDA State of the Science Meeting, Oral Presentation July 2024

Jacquelyn Veatch, Josh Kohut, Matt Oliver, Katherine Gallagher, Erick Fredj *Finding Marine Grocery Stores: A Lagrangian Approach to Prey Concentrating Features in Palmer Deep, Antarctica* Ocean Sciences Meeting 2024, Oral Presentation February 2024

Jacquelyn Veatch++, Josh Kohut, Matt Oliver, Katherine Gallagher, Erick Fredj *Finding Marine Grocery Stores: A Lagrangian Approach to Prey Concentrating Features in Coastal Biological Hotspot* MACAFS Annual Meeting, Oral Presentation November 2023

Jacquelyn Veatch, Josh Kohut, Matt Oliver, Erick Fredj *High Frequency Radars Observe Krill Feeding: Using Lagrangian Coherent Structures to Detect Food Web Focusing*, OCEANS23 Gulf Coast, Marine Life and Ecosystems, Oral Presentation September 2023

Jacquelyn Veatch, Josh Kohut, Matt Oliver, Hank Statscewich, Erick Fredj *Quantifying Physical Prey Concentrating Features in Palmer Deep Canyon: Finding Marine Grocery Stores* SOOS Symposium 2023, Distributed research efforts along the West Antarctic Peninsula and Scotia Arc, Oral Presentation August 2023

Fiona Sheard*, Josh Kohut, Jacquelyn Veatch *Choosing Sides: Antarctic Krill Congregating Across the Palmer Deep* Rutgers University Research Experience for Undergraduates Symposium, Poster Presentation August 2023

Jacquelyn Veatch, Josh Kohut, Erick Fredj, Matt Oliver *Using Lagrangian Coherent Structures to Quantify Prey Concentrating Features* Aquatic Science Meeting 2023, Lagrangian Transport and Connectivity in Oceanic Flows: Applications to Ocean Dynamics and Marine Ecosystems, Oral Presentation June 2023

Tareen R. Haque*, Josh Kohut, Jacquelyn Veatch, Joe Gradone *Palmer Deep: More than Meets the Eye* Aquatic Science Meeting 2023, Poster Presentation June 2023

Jacquelyn Veatch, Josh Kohut, Erick Fredj, Matt Oliver *Using Lagrangian Coherent Structures to Quantify Prey Concentrating Features* The Second International Conference on Naval Architecture and Ocean Engineering, Virtual Oral Presentation May 2023

Jacquelyn Veatch, Josh Kohut, Erick Fredj, Matt Oliver *Finding Marine Grocery Stores: Using Lagrangian Coherent Structures to Quantify Prey Concentrating Features* Rutgers Department of Marine and Coastal Sciences Seminar Series, Oral Presentation November 2022

Jacquelyn Veatch[++], Erick Fredj, Josh Kohut, *High Frequency Radars as Ecological Sensors: Using Lagrangian Coherent Structures to Quantify Prey Concentrating Features in the Antarctic* OCEANS 22 Hampton Roads, VA Student Poster Competition, October 2022

Jacquelyn Veatch, Erick Fredj, Josh Kohut *Using Lagrangian Coherent Structures to Quantify Prey Concentrating Features in Coastal Biological Hotspot* Ocean Sciences Meeting 2022, Physical-Biological Interactions Posters 1, March 2022

Jacquelyn Veatch, Laura McDonnell, Andrew Chin*, Felippe Galdino, Kyle Oliveira, Bruna Ramos*
Xtractopy: a tool optimizing the use of oceanographic data by marine spatial ecologists Ocean Hack Week Project Presentation at Bigelow Ocean Laboratories, Aug 2021

Mollie Passcantando*, Jacquelyn Veatch, Josh Kohut *The Decadal Impact from Suppression of Eddy-Diffusivity on Surface Mixing in the Southern Ocean through ARGO Float Analysis* Rutgers University George H Cook Honors Thesis Seminar, Oral Presentation May 2021

Jacquelyn Veatch[++], Elizabeth de la Reguera, Keryn Gedan. *Effects of Osmotic Potential and Ionic Toxicity on Water Uptake Mechanisms in Germination of Crop Seeds* Seminar Speaker at: GW Dept. of Physics Senior Capstone Seminar May 2019

Jacquelyn Veatch, Elizabeth de la Reguera, Keryn Gedan. *Effects of Osmotic Potential and Ionic Toxicity on Water Uptake Mechanisms in Germination of Crop Seeds* Seminar Speaker at: GW Honors Program Research April 2019

SCIENCE POLICY & SUSTAINABLE DEVELOPMENT

Weather and Climate Livestream Presenter June 2026
- Presented to a general audience about the connections between my research and weather & climate, supporting a non-partisan effort to support America's forecasts

Seventh National Climate Assessment (IPCC), Early Career Reviewer May-Sept 2026
- Serve as reviewer for Working Group 1 First Order Draft with a focus on Chapter 3: Changes in regional climate and extremes, and their causes

National Academies Workshop, Early Career Representative May 2025
- *Exploring Key Research Topics for the Fifth International Polar Year*
- Voiced results from the Polar Early Career World Summit to leadership in US polar research

Polar Early Career World Summit, Planning Team March 2025
- Facilitated small group discussions to incorporate input from hundreds of early career polar scientists into succinct priority areas that will inform the next International Polar Year
- Worked closely with PSECCO and APECS to organize pre-event logistics
- Lead social and networking events

Sixth National Climate Assessment (IPCC), Technical Contributor Spring 2021
- Synthesized current understanding of ecosystem buffering capacity to create a comprehensive figure

Rutgers Environmental Governance Interest Group, Discussion Host April 2021
- Organized and facilitated discussion of most recent IPCC reports amongst graduate students

Environment America, Public Lands and Conservation Intern January 2019-May 2019

- Prepared talking points from peer-reviewed literature for and participated in meetings with congressional offices
- Various other grass-roots efforts to build support for Land and Water Conservation Fund

Understanding the City's Approach to Climate Adaptation, independent study April 2018

- Developed project with Dr. Mellissa Keeley to assess 20 urban sustainable development plans for strategies of climate adaptation.
- Presented results at The George Washington University's Undergraduate Research Days

ACADEMIC SERVICE

Present Reviewer *proposal review 2024 - present

Journal of Geophysical Research
Journal of Limnology and Oceanography
Marine Ecological Press Series
Global Biogeochemical Cycles
Progress in Oceanography
Current Biology
European Journal of Phycology
POLARIN*
The New Jersey Sea Grant Consortium*
Regional Wildlife Science Collaborative*
Regional Studies in Marine Science
Nature Communications Earth & Environment

Elected Positions

- Marine Technology Society, Vice President of Early Career Ocean Professional Jan 2027-Jan 2029
- Southern Ocean Observing System Design Capability Working Group ECR Representative Oct 2026-Oct 2028
- WHOI Postdoctoral Association, Department Representative May 2025-Mary 2026
- Rutgers Oceanography Graduate Student Association
    - President, May2021-May 2024
    - Treasurer, May 2020-May2021
    - Department Seminar Committee, May 2020-May2021

Ocean Science Meeting 2026, Session Chair February 2026

- Animals and Ocean Features: Linking behavior, biophysical drivers, and the use of animal observations to characterize dynamic marine environments

Professional Memberships

- IEE Ocean Engineering Society, Young Professionals Committee 2023-present
- Marine Technology Society, Education Committee, Scholarship Chair 2019-present
- Association for the Scientists of Limnology and Oceanography 2022-present

PUBLIC OUTREACH

Engaging Students in Marine Science

- New Jersey Marine Technology Society Student Symposium, organizer and presenter May 2022
- Early Career Ocean Professionals (ECOP) Breakfast, OCEANS23 conference September 2023
    - Worked with Marine Technology Society and IEEE Ocean Engineering Society leadership to plan a listening session with ECOPs, discussing what they need from professional societies
- Career Networking Fair, Student Tour Guide Lead, OCEANS23 conference September 2023
    - Lead a group of volunteer tour guides in facilitating student group experiences at the OCEANS23 career networking fair
- MATE ROV competition Engineering Judge, New England Regional Competition April 2025
- Ocean Shore Bowl for High School Students, Volunteer Room Lead March 2021, 2022

- Science Fair Judge, Falmouth Public Schools — March 2025, 2026

Supporting Cooperative Research & Community Outreach

- New Jersey Coastal Flyrodders, Guest Speaker, *Fish in Coastal Flows* — September 2020
- *Ocean of Possibilities*, interactive learning at NJ public libraries — May 2022-August 2023
- Rutgers Day, Lead Organizer — April 2022, 2023, 2024
    - Coordinated five interactive marine science exhibits staffed with Rutgers graduate students, engaging thousands of visitors of all ages from the local New Brunswick community

Increasing Engagement in Science

- Intrepid Museum's GOALS for Girls Summer Program, Earth and Marine Science Mentor — August 2020
- UN Ocean Decade Satellite Activity: "More Seats at the Table" Increasing Representation in Sciences
    - Organizing committee member, early career representative — September 2021
- *SPS Observer* alumni spotlight and cover story, *Physics and a Climate Crisis* — Spring 2020
- Retention Outreach and Accessibility in Marine Science, Founding Member — May 2021-May 2024

Rutgers Go Outdoors

- Outdoor Adventure Senior Facilitator — September 2019-2024

CERTIFICATIONS

Wilderness First Responder, Wilderness Medical Associates

CPR, Red Cross

Open Water Diver, PADI