Becca Horwitz

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EDUCATION

PhD Candidate Oceanography — 2023- Present
Rutgers University, Department of Marine and Coastal Sciences
Advisor: Dr. Travis Miles

B.A. Double Geology and Environmental Studies Major — 2018-2022
Carleton College

PROFESSIONAL EXPERIENCE

Graduate Assistant — 2024 - Present
Rutgers University, Department of Marine and Coastal Sciences

Field Team Lead, Western Antarctic Peninsula NSF LTER Cruise — 2026
Rutgers University, Department of Marine and Coastal Sciences

Research Technician — 2022 - 2023
Rutgers University, Department of Marine and Coastal Sciences
Haskin Shellfish Research Laboratory

NSF Research Experiences for Undergraduates Intern — 2021- 2022
Science Center for Marine Fisheries (SCEMFIS)

NSF Research Experiences for Undergraduates Intern — 2021
Rutgers University, Department of Marine and Coastal Sciences

Campus Sustainability Coordinator — 2019-2022
Carleton College Sustainability Office

PUBLICATIONS

Horwitz, R., Miles, T., Munroe, D., Kohut, J. (2023) "Overlap between the Mid-Atlantic Bight Cold Pool and Offshore Wind Lease Areas." *ICES Journal of Marine Science.* 82 (4): pp 190. https://doi.org/10.1093/icesjms/fsad190.

Busch, E., Miles, T., Lopez, A., **Horwitz, R.** (2023) A Dip in the Pool: Analyzing the Stability Strength of the Mid-Atlantic Cold Pool. OCEANS 2023, *Marine Technology Society (MTS)/Institute of Electrical and Electronics Engineers (IEEE) U.S Gulf Coast,* Biloxi, MS. DOI:10.23919/OCEANS52994.2023.10337025

Horwitz, R., Miles, T., Munroe, D., Kohut, J. (2022) Investigating the Overlap Between the Mid-Atlantic Bight Cold Pool and Off-Shore Wind Lease Areas. OCEANS 2022, *Marine Technology Society (MTS)/Institute of Electrical and Electronics Engineers (IEEE) Hampton Roads,* Hampton Roads, VA. DOI:10.1109/OCEANS47191.2022.9977050

AWARDS AND FELLOWSHIPS

Thomas Lloyd Endowed Graduate Fellowship, Rutgers University 2026
Teledyne-Webb Graduate Research Fellowship, Rutgers University 2025
Honorable Mention Graduate Research Fellowship Program (GRFP), National Science Foundation (NSF) 2024
Early Career Ocean Professional Travel Grant, National Ocean and Atmospheric Administration and The Global Ocean Observation System 2024
Summer Undergraduate Pipeline to Excellence at Rutgers Graduate Fellowship, Rutgers University 2023
Finalist, Office of Naval Research Marine Technology Society Oceans Conference 2022 Student Poster Competition 2022
Sigma Xi Member 2022
Stewsie Award, Carleton College 2022
Honorable Mention, Rutgers University Research Internship in Ocean Sciences Poster Conference Competition 2021

FIELD AND LAB EXPERIENCE

Phytoplankton Sub-Team Lead, North Atlantic Ocean 2026 (4 Weeks)
R/V Falkor (too)
Salt finger Processes Influence on Carbon and Ecosystem dynamics (SPICE) Cruise

- Analyzed samples collected from CTD Rosette using filters, Imaging Flow Cytobot, and FIRe
- Oversaw 3 person team

Phytoplankton Group Lead, Western Antarctic Peninsula 2026 (8 weeks)
R/V Roger Revelle
Palmer Long Term Ecological Research (PAL-LTER)

- Responsible for 4 person team under PI Dr. Oscar Scofield
- Led CTD and Rosette operations
- Coordinated all phytoplankton related deck, field and lab operations
- Analyzed samples collected from CTD Rosette using filters, Imaging Flow Cytobot, QFT-iCAM and FIRe

Slocum Glider Deployment and Recovery, Rutgers University 2023- Present (>50 days)
R/V Rutgers and R/V Arabella

Oyster Population Surveys, Delaware Bay, Rutgers University 2022-Present (>10 days)
Commercial Oyster Boats and NJ DEP Boats

- Assisted with deck operations and sample sorting

Surfclam Population Surveys, Atlantic Ocean, Rutgers University 2022, 2023 (1 Week)
F/V Joey D

- Shift lead, managed communication between crew, captain and science team
- Assisted with navigation and way point finding
- Collected CTD and PCO_2 data, Petersen grab and Surfclam samples

PRESENTATIONS

Miles, T., Gradone., J., Hopson, L., **Horwitz, R.,** Engdahl, J., Glenn, S., *Observations of the storm-driven fall overturn of the Mid-Atlantic Bight Cold Pool from a glider mounted microrider*. Poster presented at The Association of Limnology and Oceanography 2026 Ocean Sciences Meeting. Glasgow, Scottland, 2026

Horwitz, R., Miles, T. *Investigating Variability of Mid-Atlantic Bight Ocean Temperature Extremes*. Poster presented at The Mid-Atlantic Chapter of the American Fisheries Society Annual Meeting, Dewey Beach, Delaware, 2025.

Horwitz, R., Miles, T., Munroe, D., Kohut, J. *Investigating The Overlap Between the Mid-Atlantic Bight Cold Pool and Leased Off-Shore Wind Sites*. Poster presented at The North American Wind Energy Academy (NAWEA)/ Wind Tech 2024 Conference. Rutgers University, New Brunswick, New Jersey.

Horwitz, R., Miles, T., Glenn, S., Stienbarger, C. *Detection of Anomalous Sea Surface Temperature Events Using an Ocean Observation Network*. Poster Presented at the Agulhas Current Design Workshop. Cape Town, South Africa, 2024.

Horwitz, R., Miles, T., Munroe, D., Kohut, J. *Overlap between the Mid-Atlantic Bight Cold Pool and Offshore Wind Lease Areas*. Poster presented at The Association of Limnology and Oceanography 2024 Ocean Sciences Meeting. New Orleans, Louisiana, 2024.

Horwitz, R., Miles, T., Munroe, D., Kohut, J. *Investigating The Overlap Between the Mid-Atlantic Bight Cold Pool and Leased Off-Shore Wind Sites*. Poster presented at The Mid-Atlantic Chapter of the American Fisheries Society Annual Meeting. Asbury Park, New Jersey, 2022.

Horwitz, R., Miles, T., Munroe, D., Kohut, J. *Investigating The Overlap Between the Mid-Atlantic Bight Cold Pool and Leased Off-Shore Wind Sites.* Poster presented at The Marine Technology Society Oceans 2022 Conference Student Poster Competition. Virginia Beach, Virginia, 2022.

Horwitz, R., Miles, T., Munroe, D., Kohut, J. *Investigating Possible Overlap Between the Mid-Atlantic Bight Cold Pool and Leased Off-Shore Wind Sites*. Poster presented at The Mid-Atlantic Committee on the Ocean, Mid-Atlantic Ocean Forum Student Poster Session. Virtual. 2022.

Horwitz, R., Miles, T., Munroe, D., Kohut, J. *Investigating Possible Overlap Between the Mid-Atlantic Bight Cold Pool and Leased Off-Shore Wind Sites*. Poster presented at The Association of Limnology and Oceanography Ocean Sciences Meeting Ocean Policy Session. Virtual. 2022.

Horwitz, R., Miles, T., Munroe, D., Kohut, J. *Investigating Possible Overlap Between the Mid-Atlantic Bight Cold Pool and Leased Off-Shore Wind Sites.* Poster presented at Rutgers University Research Internship in Ocean Sciences Poster Conference. New Brunswick, NJ. 2021.

CONFERENCE AND SYMPOSIA CONVENER

Co-Organizer, MTS NJ Student Section Research Symposium, Atlantic City, NJ	2025, 2026
Moderator, Offshore Wind Energy Research, Development, Evaluation, and Policy, ASLO Ocean Sciences Meeting. New Orleans, Louisiana	2024

WORKSHOPS AND TRAININGS

Mission is Ocean (MOCEAN) Workshop on Nature-Enhancing Multi-Objective Offshore Wind farms	2025
Jaia Robotics Jaiabot Training	2024
Rutgers University Slocum Glider Training	2024
Joint NOAA and Rutgers University Workshop in Fisheries Population and Ecosystem Dynamics	2022
Fishing Partnership Safety and Survival Training	2022

TEACHING AND MENTORING EXPERIENCE

Summer Undergraduate Interns

Rachel Poppleton: Sea Temperature Variability in Costa Rica, Implications for Coral Climate Refuges, *NSF-REU Intern (co-mentor)*	2026
Alexa Liebhardt: Growth Analysis of Atlantic Surfclams Between Physical Environments, *NSF-REU Intern (co-mentor)*	2024

Courses Taught:

Ocean Methods in Data Analysis: Physical Processes, Rutgers University, *Teaching Assistant*	2025
Physical Oceanography, Rutgers University, *Teaching Assistant,*	2024
Global Change Biology, Carleton College, *Teaching Assistant*	2021

UNIVERSITY SERVICE AND COMMITTEES

Social Media Content Manager, Rutgers University Coastal Ocean Observing Leadership	2026- Present
Chair, Seminar Committee, Rutgers University Department of Marine and Coastal Science	2023-Present
Intern Coordinator, Rutgers University Department of Marine and Coastal Science NSF REU Internship (RIOS)	2025
Co-Founder, Society of Women in Marine Science (SWMS) , Rutgers University Chapter	2024
Treasurer, Oceanography Graduate Student Association, Rutgers University	2024-2025
Captain, DIII Women's Swim and Dive Team, Carleton College	2021-2022

PROFESSIONAL SERVICE

Manuscript Reviewer for International Council for Exploration of the Sea (ICES)

SELECT OUTREACH AND BROADER IMPACTS

"Marine Technology Exhibit, " Rutgers Day	2023-Present