

Zoë J. Kitchel, Ph.D.

Vantuna Research Group, Occidental College
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Education

- 2017 – 2023 Ph.D. in Ecology & Evolution, Rutgers University. Advisor: Dr. Malin Pinsky.
Dissertation: “Detecting impacts of climate change and fishing on shelf ecosystems”
2011 – 2015 B. S. in Ecology & Evolutionary Biology, Yale University, *magna cum laude*. Thesis:
“Forest and savanna tree demography along a rainfall gradient: a meta-analysis”

Professional experience

- 2023 – Present Postdoctoral researcher, Occidental College
2019 – 2023 Teaching Assistant Project Associate, Rutgers University
2018 – 2023 Graduate Research Assistant, Rutgers University
2015 – 2017 Fisheries Technology and Biology Project Coordinator, University of Alaska
2016 – 2017 Research Diver, Sitka Sound Science Center, Alaska
2015 Research Assistant, Gulf of Maine Research Institute
2007-2015 Orrs Bailey Yacht Club Sailing Instructor and Launch Operator, Maine
2014 Conservation Intern, Damariscotta Lake Watershed Association, Maine
2013 Stream Watershed Assessment Tech., Maine Dept. of Environmental Protection

Awards/Grants

- 2023 CA Sea Grant: Siting Artificial Reefs for Kelp Restoration in California: A Toolkit
for Enhanced Mitigation Outcomes and Multi-User Engagement (Co-PI *Submitted*)
2020 Manasquan Marlin and Tuna Club Burlew Scholarship (\$1000)
2020 Lewis and Clark Field Scholar (\$3700)
2019 – 2020 Institute of Earth, Ocean, and Atmospheric Sciences Excellence Fellowship, Rutgers
2019 School of Environmental and Biological Sciences Travel Award, Rutgers (\$617)
2019 National Science Foundation Graduate Research Fellowship Honorable Mention
2019 Buell Award for Undergraduate Mentorship, Rutgers (\$3500)
2018 National Defense Science and Engineering Graduate Fellowship Alternate
2018 Ecology and Evolution Program Small Grant Award, Rutgers (\$1500)
2018 Coastal Climate Risk and Resiliency Traineeship Travel Award, Rutgers (\$500)
2017 – 2018 School of Environmental and Biological Sciences Excellence Fellowship, Rutgers

Peer-reviewed publications **student mentee authors*

5. Fredston, A.L., Cheung, W.W., Frölicher, T.L., **Kitchel, Z.J.**, Maureaud, A.A., Thorson, J.T., Auber, A., Mérigot, B., Palacios-Abrantes, J., Palomares, M.L.D., Pecuchet, L., Shackell, N.L., & Pinsky, M.L. (2023). Marine heatwaves are not a dominant driver of change in demersal fishes. *Nature*, 1-6.
4. **Kitchel, Z. J.** and Pinsky, M.L. (2023). Regional species gains outpace losses across North American continental shelf regions. *Global Ecology and Biogeography*, 32(7), 1205-1217.

3. **Kitchel, Z. J.**, Conrad, H. M.*, Selden, R. S., & Pinsky, M. L. (2022). The role of continental shelf bathymetry in shaping marine range shifts in the face of climate change. *Global Change Biology*, 28(17), 5185-5199.
2. **Kitchel, Z. J.** & Zemeckis, D. R. (2021). Climate Change Impacts on New Jersey's Marine Fisheries. *Rutgers Cooperative Extension Bulletin E369*. <https://njaes.rutgers.edu/e369/>
1. Pinsky, M. L., Selden, R. L., & **Kitchel, Z. J.** (2019). Climate-Driven Shifts in Marine Species Ranges: Scaling from Organisms to Communities. *Annual Review of Marine Science*, 12.

Teaching experience

Ecology and evolution

- 2021 Ecology, Evolution, Natural Resources Senior Seminar (semester course, co-instructor)
 2020 Global Change Ecology (semester course, instructor)

Pedagogical course and workshop instruction

- 2020-2023 Role of the Instructor in the College Classroom (workshop, facilitator)
 2021-2022 Developing Culturally Responsive Curriculum (workshop, facilitator)
 2020-2022 Introduction to College Teaching, Rutgers (semester course, instructor)
 2021 Time Management as a Teaching Assistant (workshop, facilitator)
 2020 Boosting Confidence as an Instructor In Person and Online (workshop, facilitator)
 2019-2020 Designing Your Own College Course, Rutgers (semester course, instructor)
 2019 Developing Classroom Policies (workshop, facilitator)
 2019 Facilitating Classroom Conversations (workshop, facilitator)
 2019 Working with Students with Disabilities (workshop, facilitator)

Undergraduate mentoring

- 2022 Jesenia Rosa-Miranda – morphological variation in Atlantic Croaker larvae over time
 2021 Justin Deutsch – morphological variation in Atlantic Croaker larvae over space
 2020 Hailey Conrad – global assessment of continental shelf habitat availability
 2019-2020 Ria Koberness – spatial sorting in range expansions of North American fishes
 2019 Cassiel Padilla-Duran – variation in life history strategies in marine invertebrates

Guest Lectures

- 2023 Introductory Fisheries Science for Stakeholders, Rutgers, *Climate change and NJ Fisheries*
 2022 Environmental Science, Kentucky Wesleyan College, *Why are species on the move?*
 2022 Quantitative Fisheries Approaches, Rutgers, *Consequences of species on the move*
 2020 Ecological Data Analysis, Rutgers, *Working with Big Data in R*

Working groups, conferences, workshops, invited seminars

Working Groups

- 2020-Present FishGlob, Center for Synthesis and Analysis of Biodiversity, Montpellier, FR
 2018-2023 NEREUS Global Partnership, Graduate Student Fellow, University of Washington

Contributed Talks

- 2023 Effects of Climate Change on the World Ocean, *The role of continental shelf bathymetry in shaping marine range shifts in the face of climate change*
- 2023 American Society of Naturalists, *Biotic homogenization not the rule across marine ecosystems*
- 2022 Mid-Atlantic Chapter American Fisheries Society, *Distinct patterns in historical mobility and catch flexibility underscore intra-port variation in potential adaptive capacity to climate change*
- 2022 Ocean Sciences, Virtual, *Testing for biotic homogenization across marine fish communities*
- 2020 Western Society of Naturalists, Virtual, *Marine extirpations lag behind colonizations across North American shelf regions*
- 2019 Species on the Move, Kruger National Park, South Africa, *Temperature change as a driver of variability in the presence of marine species at a regional scale*
- 2019 NEREUS Science Conference, Princeton, NJ, *The Role of Temperature in Patterns of Range Shifts of Marine Species*, youtube.com/watch?v=ZcoPYbf1CLE

Workshop Attendance

- 2019 Sustainable Development Goals Integration Workshop, University of British Columbia
- 2018 Species Distribution Modeling, University of Evora, Portugal, w/ Dr. Miguel Araújo

Invited Seminars

- 2023 Occidental College, *Consequences of species on the move*
- 2020 Southampton University, *Fish and fisheries in a changing climate*

Outreach and service

Reviewer for Ecology Letters, Fish and Fisheries and Philosophical Transactions B

Ecology and Evolution Program

- 2017-2021 Graduate Student Association (Secretary 2018-19, President 2019-2021)
- 2017-2019 Visiting student day coordinator

Rutgers University

- 2019-2022 Undergraduate research mentor
- 2018-2022 Marine field station volunteer field researcher
- 2021-2022 School of Graduate Studies diversity, equity, inclusion committee
- 2018-2021 Shorebowl moderator
- 2019 Geology museum open house presenter
- 2018 Future Scholars mentor
- 2017-2018 Science communications course final project evaluator

New Jersey Public Schools

- 2021 NJ City STEAM Mentor
- 2018-2019 Rutgers Science Bus Fellow (presenter to 6th grade classrooms throughout NJ)
- 2018 Redshaw Elementary STEM Festival presenter

Other

- 2020-Present Skype a Scientist participant
- 2023 New York Marine Science Educators Presenter

2015-2017 Whalefest Conference volunteer, Sitka, Alaska
2015-2016 Science fellow, University of Alaska Southeast
2015-2017 Microscope lesson teacher in 3rd and 4th grade classrooms, Sitka, Alaska

Memberships

American Society of Naturalists
Western Society of Naturalists
American Institute of Fisheries Research Biologists
American Academy of Underwater Sciences