

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

- 2024-present Visiting Assistant Professor, Occidental College
- 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 Sailing Instructor and Launch Operator, Orrs Bailey Yacht Club, Maine
- 2014 Conservation Intern, Damariscotta Lake Watershed Association, Maine
- 2013 Stream Watershed Assessment Technician, Maine Dept. of Envi. Protection

Awards/Grants

- 2020 Manasquan Marlin and Tuna Club Burlew Scholarship (\$1000)
- 2020 Lewis and Clark Field Scholar (\$3700)
- 2019-2020 Rutgers Institute of Earth, Ocean, and Atmospheric Sciences Excellence Fellowship
- 2019 Rutgers School of Environmental and Biological Sciences Travel Award (\$617)
- 2019 National Science Foundation Graduate Research Fellowship Honorable Mention
- 2019 Rutgers Buell Award for Undergraduate Mentorship (\$3500)
- 2018 National Defense Science and Engineering Graduate Fellowship Alternate
- 2018 Rutgers Ecology and Evolution Program Small Grant Award (\$1500)
- 2018 Rutgers Coastal Climate Risk and Resiliency Traineeship Travel Award (\$500)
- 2017-2018 Rutgers School of Environmental and Biological Sciences Excellence Fellowship

Peer-reviewed publications *student mentee authors

Maureaud, A. A., **Kitchel, Z. J.**, Fredston, A., Guralnick, R., Palacios Abrantes, J., Deng Palomares, M. L., Pinsky, M. L., Shackell N., Thorson, J. T., and Merigot B. FISHGLOB: a collaborative infrastructure for marine science and management. In review at *Conservation Biology*.

Kitchel, Z. J., et al. Marine fish communities cycle between homogenized and differentiated states through time. In second revision at *Ecology Letters*.

- Selden, R. L., **Kitchel, Z. J.**, Coleman, K. E., Calzada, L., Nogues, B., and St. Martin, K. Using historical catch flexibility and fishing ground mobility as measures of the adaptive capacity of fishing communities to future ocean change. *In press* at *ICES Journal of Marine Science*.
6. Maureaud, A. A., Palacios-Abrantes, J., **Kitchel, Z.**, Mannocci, L., Pinsky, M., Fredston, A., Beukhof, E., Forrest, D., Frelat, R., Palomares, M. L. D., Pecuchet, L., Thorson, J., van Denderen, P. D., and Merigot, B. (2024) FishGlob_data: an integrated database of fish biodiversity sampled with scientific bottom-trawl surveys. *Scientific Data*, 11, 24.
 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*, 621, 324–329.
 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, 153-179.

Teaching experience

Ecology and marine science

2025	Biostatistics (semester course, instructor)
2024	Biology of marine fishes (semester course, co-instructor)
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, Rutgers (workshop, facilitator)
2021-2022	Developing Culturally Responsive Curriculum, Rutgers (workshop, facilitator)
2020-2022	Introduction to College Teaching, Rutgers (semester course, instructor)
2021	Time Management as a Teaching Assistant, Rutgers (workshop, facilitator)
2020	Boosting Confidence as an Instructor, Rutgers (workshop, facilitator)
2019-2020	Designing Your Own College Course, Rutgers (semester course, instructor)
2019	Developing Classroom Policies, Rutgers (workshop, facilitator)
2019	Facilitating Classroom Conversations, Rutgers (workshop, facilitator)
2019	Working with Students with Disabilities, Rutgers (workshop, facilitator)

Undergraduate mentoring

2024	Katie Placencia – carbon storage potential of artificial reefs in CA
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- 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

- 2024-present Beijer Young Scholars, Swedish Royal Academy of Sciences, Stockholm, Sweden
 2020-present FISHGLOB, Center for Synthesis and Analysis of Biodiversity, Montpellier, France
 2018-2023 NEREUS Global Partnership, Graduate Student Fellow, University of Washington

Contributed talks* and posters^

- 2024 Ecological Society of America, Long Beach, CA*
 2024 Ocean Sciences Meeting, New Orleans, LA^
 2023 Effects of Climate Change on the World Ocean*
 2023 American Society of Naturalists, Monterey, CA*
 2022 Mid-Atlantic Chapter American Fisheries Society, Asbury Park, NJ*
 2022 Ocean Sciences, Virtual*
 2020 Western Society of Naturalists, Virtual*
 2019 Species on the Move, Kruger National Park, South Africa*
 2019 NEREUS Science Conference, Princeton, NJ*

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

- 2024 College of the Atlantic, *Consequences of species on the move*
 2023 Southern California Association of Ichthyological Taxonomists and Ecologists,
Consequences of species on the move
 2023 Occidental College, *Consequences of species on the move*
 2020 Southampton University, *Fish and fisheries in a changing climate*

Outreach and service

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

- 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

Rutgers University

2019-2022 Undergraduate research mentor
2017-2021 Graduate Student Association (Secretary 2018-19, President 2019-2021)
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
2017-2019 Visiting student day coordinator
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

Memberships

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