

Occidental College, 1600 Campus Road, Los Angeles, CA 90041

Education

- 2017 – 2023 PhD in Ecology & Evolution, Rutgers University. Advisor: Dr. Malin Pinsky.
Dissertation: “Detecting impacts of climate change and fishing on shelf ecosystems”
- 2011 – 2015 BS 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 – 2023 Postdoctoral Associate, Vantuna Research Group, 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
- 2014 Conservation Intern, Damariscotta Lake Watershed Association, Maine
- 2013 Stream Watershed Assessment Tech., Maine Dept. of Environmental Protection

Awards

- 2023 Graduate Student Travel Award, Rutgers (\$1000)
- 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*

4. **Kitchel, Z. J.** & Pinsky, M. L. Regional species losses lag behind species gains and thermal conditions across the North American continental shelf. (2023). *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 Introduction to Fisheries Science for Stakeholders, *Consequences of species on the move*
2022 Environmental Science, Kentucky Wesleyan College, *Why are species on the move?*
2022 Quantitative Fisheries Approaches, Rutgers University, *Consequences of species on the move*
2020 Ecological Data Analysis, Rutgers University, *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](https://www.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

- 2020 Southampton University, *Fish and fisheries in a changing climate*

Outreach and service

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
- 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