

Rutgers University, 14 College Farm Road, New Brunswick, NJ 08901

## Education

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- 2017 – Present    Ph.D. Candidate in Ecology & Evolution, Rutgers University. Advisor: Dr. Malin Pinsky. Dissertation: “Drivers and consequences of climate driven community reassembly of marine ectotherms”
- 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

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- 2019 – Present    Teaching Assistant Project Associate, Rutgers University
- 2018 – Present    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

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- 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

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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.

### ***In press***

**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*.

### **Teaching experience**

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#### ***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**

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#### ***Working Groups***

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

#### ***Contributed Talks***

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**

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### ***Ecology and Evolution Program***

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

### ***Rutgers University***

- 2019-Present Undergraduate research mentor
- 2018-Present 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 6<sup>th</sup> 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 3<sup>rd</sup> and 4<sup>th</sup> grade classrooms, Sitka, Alaska

## **Memberships**

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