

KIEREN LEIF DYKSTRA

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EDUCATION

Brown University – Providence RI

Expected May 2025

ScB in Biology; Ecology, Evolution, and Organismal Biology

Relevant Coursework: The Foundation of Living Systems, Principles of Ecology, Evolutionary Biology, Coral Reef Ecology, Foundations of Population Genetics, Invertebrate Zoology, Planetary Health: Global Environmental Change and Emerging Infectious Disease, Machine Learning for the Earth and Environment, Pathogenomics: Analysis, interpretation and applications of microbial genomes, Antibiotic Drug Discovery, Parasitism: Biology and Disease, Phage Hunters Part I & II, Virology, Principles of Physiology, Development of Vaccines to Infectious Diseases

Awards: The Claire C. Bennett Watershed Fund (for studies in marine conservation biology; 2021, 2022, 2023), The New Haven Scholarship Fund Lovell World Peace Scholarship (2022), The New Haven Scholarship Fund Edward Lowery Memorial Scholarship (2021), Alison Varian Memorial Scholarship for studies in marine science (2021)

The Sound School – New Haven CT

2021

Valedictorian

WORK

Brown University – *Undergraduate Teaching Assistant*

- Biology 0420 Principles of Ecology - *Lead TA* (Spring 2024)
- Biology 0190R Phage Hunters Part I (Fall 2022 & 2023)
- Biology 0410 Invertebrate Zoology (Fall 2023)

Brown University Orientation Welcoming Committee – *Bruno Leader*

(Summer 2021–cont.)

- Facilitate orientation events and lead small group activities for new Brunonians.

Brown University Ecology, Evolution, and Organismal Biology Departmental Undergraduate Group – *Head*

(Spring 2023–cont.)

- Create and facilitate events for Brown students interested in EEOB.

Brown University Science Olympiad – *Volunteer*

(Fall 2023)

- Facilitated Forestry and “Write It Do It” events for middle schoolers.

Brown University Elementary After School Mentoring “BEAM”

(Spring 2023)

- Taught topics in science and physical education to students

Brown University Alumni Relations Reunion Event Staff – *Concierge Staff*

(Spring 2023)

- Provided general assistance and information to returning Brunonians and other event staff.

Yale Peabody Museum of Natural History – *Sci.CORPS Museum Interpreter* – New Haven CT

(Summer 2022)

- Created Yale Evolutions Program ecology curriculum, and “70 Second Science” videos.

Yale Peabody Museum of Natural History *Sci.CORPS Museum Apprentice*

(Summer 2018–Spring 2019)

- Educated visitors on museum topics, housed animals, and weekly specially curated topics.

Stillwaters Environmental Center – *Fieldwork Assistant* – Kingston WA

(Summer 2018)

- Performed field work to restore natural habitats and fundraising.

RESEARCH

Brown University EEOB and MCB departments – *Undergraduate Researcher*

- Witman Lab Acoustic Ecology Team; Coral Conservation Team; Benthic Megafauna Team (Fall 2022–cont.)
- Undergraduate Teaching and Research Award with Dr. William Holmes: (Spring 2024)
“Developing methods for a new course probing unique protein folding phenotypes of wild yeast”

Yale University EEB Department – *SURES Researcher: Paul Turner Lab* – New Haven CT

(Summer 2023–cont.)

- “Experimental evolution on desiccation tolerance in tidepool and marine *Pseudoalteromonas*”
- “Intertidal microbes as a model for studying temperature dependent phage interactions”
- “Climate change, extreme rain events, and fecal indicator bacteria: a case study in the Long Island Sound”

The Sound School Aquaculture Lab – *lead student barramundi caretaker and assistant aquaculturist* – New Haven CT

2019-2020

- Operated barramundi aquaculture systems for 14 barramundi valued at ~\$10k at adulthood.
- Aided in operation of aquaculture systems for lobsters, catfish, koi, and corals.

SKILLS, CERTIFICATIONS, ACTIVITIES

Programming and software: Linux command line, OSCAR, RavenPro; Familiar with Python, R, MATLAB, NSU Florida CPCe

Languages: Spanish biliteracy

Certifications: PADI Open Water Diver, FFA Greenhand, Brown Design Workshop (wood, metal, laser cutter), CT Safe Boating License

Activities: SCUBA diving, Brown Aerial Acrobatics (duo trapeze), Brown Grappling and MMA, sailing, widehull rowing, Fashion @ Brown