

ADELAIDE D. DAHL

Ecology, Evolution and Marine Biology
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Education

- 2024–present **University of California, Santa Barbara (UCSB)** - Santa Barbara, CA
Doctoral student | Advisor: Hillary Young
- 2022–2024 **California State University, Northridge (CSUN)** - Northridge, CA
Masters of Science in Biology (GPA 4.0) | Advisor: Dr. Peter Edmunds
Committee: Dr. Nyssa Silbiger (CSUN), Dr. Anya Brown (UCD)
Thesis: Drivers of benthic community resilience on shallow coral reefs: assessing the role of fragmented habitats in protecting benthic invertebrates from declines in diversity as habitats degrade
- 2017–2021 **Brown University** - Providence, RI
BSc with Honors in Biology, Marine Biology (GPA 3.6) | Advisor: Dr. Jon Witman
Honors Thesis: Investigating patterns and drivers of sessile invertebrate diversity in the Galápagos marine system
- 2019 **Otago University** - Dunedin, New Zealand
Semester Abroad (GPA 4.0)

RESEARCH INTERESTS: Spatial and community ecology, coral reefs, benthic ecology, conservation applications, patch dynamics, science communication, science equity

Professional Experience and Teaching

- Teaching Assistant, to Dr. Adrian Stier and Dr. Andy Brooks - UCSB** 2024
Biology of Fishes (EEMB 106)
- Director of Sustainable Seas360 initiative, Marine Conservation Network** 2023–present
Development of science communication materials for distribution
- Curious Cardinals Mentor, (Online Education)** 2021–present
Academic support and tutoring in a variety of disciplines
- Research Assistant, Dr. Peter Edmunds' Polyp Lab - CSUN** 2022–2024
- Focus in coral reef ecology

- Fieldwork at the Richard B. Gump Station, Moorea, French Polynesia (Moorea Coral Reef Long Term Ecological Research (LTER)) and Virgin Island Ecological Research Station, St. John U.S. Virgin Islands
- Coral diversity and abundance surveys, deployment and retrieval of settlement tiles (AAUS diving)
- Analysis of time series photographs

Graduate Teaching Assistant, to Dr. Peter Edmunds - CSUN 2023
Invertebrate Zoology (BIOL 313)

Peer Learning Facilitator, for Dr. Jeanne Robertson - CSUN 2023
Biological Principles (BIOL 106)

Research Experience for Undergraduates, Gump Station, Moorea Coral Reef LTER 2022
Research assistance for Dr. Peter Edmunds in Moorea, French Polynesia

- Focus in coral reef ecology
- 10 weeks in the field assisting with coral settlement tile deployment (AAUS diving) and analysis
- Assisting maintenance of 12 tank mesocosm experiment
- Development of independent project investigating patch dynamics of coral reefs in a shallow reef environment

Academic Tutoring, Brown University 2019–2021
Athletic Department, Student-Athlete Services; Department of Biology
Foundation of Living Systems Biology, Diversity of Life, Principles of Ecology

Research Assistant, Witman Lab, Brown University 2017–2021
Presenting in weekly lab meetings, work on various projects involving photo and video analysis from the Galápagos islands including:

- Long term monitoring of (benthic) invertebrate communities
- Invertebrate species identification and abundance surveys
- Quantification of barnacle recruitment

Teaching Assistant, Department of Biology, Brown University 2020
Undergraduate class for majors: Diversity of Life (BIOL 0210)

Research Assistant, Portobello Marine Laboratory, Otago University 2019
Studying reproduction of Antarctic sea star species (*Odontaster validus*) in different climate controls (Dr. Miles Lamare), Microplastic analysis in temperate fish species (Dr. Bridie Allan)

Publications and writing

Dahl, A.D. and P.J. Edmunds. 2024. Environmental and biological determinants of the size, shape, and orientation of coral bommies in the back reef of Moorea, French Polynesia. *Bulletins of Marine Science*. <https://doi.org/10.5343/bms.2023.0099>

Dahl, A.D. 2024. Don't stick your hand in there - a story about caution and observation on the reefs in Moorea. *Short Stories About Long Term Research, Long Term Ecological Research Network*.

Presentations (*presenter)

Dahl, A.D.* and P.J. Edmunds. 2024. Habitat fragmentation on the backreef of Moorea. All Investigators Meeting for the Moorea Coral Reef LTER. Santa Barbara, CA [oral presentation]

Dahl, A.D.* and P.J. Edmunds. 2024. Transient dynamics on settlement tiles in St. John, US Virgin Islands. Western Society of Naturalists, Portland, OR [oral presentation]

Dahl, A.D.* and P.J. Edmunds. 2024. The role of habitat fragmentation in coral diversity in Moorea, French Polynesia and St. John, US Virgin Islands. Ocean Sciences Meeting, New Orleans, LA [eLightning presentation]

Dahl, A.D.*, and P.J. Edmunds. 2023. The relationship between habitat fragmentation and coral diversity in Moorea, French Polynesia and St. John, US Virgin Islands. Western Society of Naturalists, Monterey, CA [oral presentation]

Dahl, A.D.* 2023. Importance of Biodiversity on a Coral Reef. Viewpoint School, Northridge, CA. [invited presentation]

Dahl, A.D.* 2023. Importance of science communication in a digital world. Campbell Hall School, Northridge, CA. [invited presentation]

Dahl, A.D.*, K. Scafidi, and P.J. Edmunds. 2023. Investigating effects of bommie size and distribution on corals in Moorea's shallow backreef. Asia Pacific Coral Reef Symposium, NUS, Singapore [poster]

Dahl, A.D.* 2023. Exploring the role of habitat fragmentation on biodiversity in a patch reef. CSUNposium, California State University, Northridge, CA [oral presentation]

Dahl, A.D.*, K. Scafidi, and P.J. Edmunds. 2022. Coral distribution on bommies in Moorea, French Polynesia. Western Society of Naturalists, Oxnard, CA [poster]

Dahl, A.D.* 2022. Marine biology and biological diversity. Viewpoint School, Northridge, CA. [invited presentation]

Awards and Honors

- 2024 Research Accelerator Awards (\$8000) | Schmidt Family Foundation
 - 2024 Summer Block Grant Support (\$8641) | UCSB
 - 2024 MS Graduation with Distinction | CSUN
 - 2024 Graduate Research Fellowships Program | Honorable mention
 - 2024 COAST Student Travel Award (\$1000) | The California State University
 - 2023 COAST Student Travel Award (\$1500) | The California State University
 - 2023 Thesis/Project/Dissertation Support Program (\$1100) | CSUN Office of Graduate Studies
 - 2022 Research Experience for Undergraduates (\$7000) | National Science Foundation
 - 2021 Graduation with Honors | Brown University
 - 2021 Collegiate Rowing Coaches Association Scholar Student Athlete | Brown University
 - 2020 Merit-Based Scholarship | Shoals Marine Laboratory, MA
 - 2019 Collegiate Rowing Coaches Association Scholar Student Athlete | Brown University
 - 2018 Collegiate Rowing Coaches Association Scholar Student Athlete | Brown University
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Professional Service and Outreach

- 2022–present **Moorea Initiatives and Outreach**, *Moorea Coral Reef LTER*
Science communication and curriculum development for outreach
 - 2021–present **Women's Launch Pad**, *Brown University*
Mentorship and support of undergraduate women in science
 - 2023–2024 **Graduate Student Committee Representative**, *LTER Network*
 - 2022–2024 **Marine Biology Graduate Student Association**, *CSUN*
Social Media Officer (2022-2023), President (2023-2024)
 - 2022–2023 **Women in Science**, *CSUN*
Social Media Officer
 - 2021 **Ecology and Evolutionary Biology Departmental Undergraduate Group Leader**, *Brown University*
Collaborate with co-leaders to organize events promoting diversity and student-body engagement with the department
 - 2021 **Brown Women's Crew Captain**, *Brown University*
 - 2021 **Stem to Stern**, *Providence, RI*
Program designed to increase diversity and access to the sport of rowing
 - 2017–2023 **Community Partner**, *Vartan Gregorian Elementary School, Providence, RI*
Outreach and engagement with local elementary school
 - 2020–2021 **Student Athlete Mentor**, *Brown University*
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Skills and Certifications

- 2019–present SCUBA diving: AAUS scientific diver (+350 dives), NAUI rescue diver (+350 dives), PADI open water (+400 dives)
- 2017–present Coding and statistical software: R (Biological statistics), ArcGIS
- 2013–present Visual and Fine Arts and Illustration (ADOBE Creative Cloud package,

digital/analog illustration)
2018–present Wilderness First Aid Certification (including CPR with AED)
2019–present Open Water Diving certification (+400 dives)
2022–present Scientific Diving certification (+350 dives)
2022–present Rescue Diving certification (+350 dives)
2013–present New Hampshire State Boating License
2013–2020 American Red Cross Lifeguard

Professional Affiliations

2023–present Marine Conservation Network
2021–present American Academy of Underwater Sciences
2021–present Divers Alert Network