

ELIZA OLDACH

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EDUCATION

UNIVERSITY OF CALIFORNIA— DAVIS CALIFORNIA, USA

SEPTEMBER 2018-PRESENT

Doctor of Philosophy in Ecology, expected Spring 2023

Planned Dissertation: Networks and Resilience in Marine Social-Ecological Systems

Advisor: Gwen Arnold, Center for Environmental Policy & Behavior
NSF-GRFP Fellow; GGE Fellow; Sustainable Oceans Trainee

UNIVERSITY OF CANTERBURY CHRISTCHURCH, NEW ZEALAND

JANUARY 2016-DECEMBER 2016

Fulbright U.S. Student Research

Project: Habitat Cascade in Estuaries and Rocky Reefs

Advisor: Mads Thomsen, Marine Ecology Research Group

COLLEGE OF THE ATLANTIC MAINE, USA

AUGUST 2013-JUNE 2015

Bachelor of Art in Human Ecology

UNIVERSITY OF CALIFORNIA— DAVIS CALIFORNIA, USA.

SEPTEMBER 2011-JUNE 2013

RESEARCH EXPERIENCE

PUBLIC PERCEPTIONS SURVEYOR ACADIA NATIONAL PARK, USA

JUNE 2018-AUGUST 2018

Collected in-person surveys on visitors' perceptions of tick-borne disease risk and disease awareness efforts. Advised by Danielle Buttke.

SCIENCE OFFICE INTERN ECOLOGICAL SOCIETY OF AMERICA, USA

JANUARY 2018-JUNE 2018

Organized and ran workshops on sustaining biological infrastructure and data repositories. Advised by Jill Parsons and Cliff Duke.

WILD ACADIA RESEARCHER ACADIA NATIONAL PARK, USA

JUNE 2017-OCTOBER 2017

Used archival and citizen science records to reconstruct history of a local fauna for adaptive management project. Advised by Hannah Weber.

FISHERIES RESEARCHER FRENCHMAN BAY PARTNERS, USA
JANUARY 2017-JUNE 2017
Collaborated with local fishermen, regulators, and conservation groups to study ecology of Maine's rockweed fishery. Advised by Chris Petersen.

FULBRIGHT VISITING SCHOLAR UNIVERSITY OF CANTERBURY, NZ
JANUARY 2016-DECEMBER 2016
Used lab and field experiments to examine habitat dynamics in estuaries and rocky reefs. Advised by Mads Thomsen.

LYME DISEASE RESEARCHER COLLEGE OF THE ATLANTIC, USA
SEPTEMBER 2014-JUNE 2015
Interviewed local residents to create a podcast and article on the human ecology of Maine's emerging Lyme epidemic. Advised by Helen Hess.

NSF REU INTERN DUKE MARINE LABORATORY, NC, USA
JUNE 2014-AUGUST 2014
Used lab and field feeding trials to develop a model for blue crab functional response to periwinkle prey. Advised by Brian Silliman.

SUMMER INTERN BODEGA MARINE LABORATORY, CA, USA
JUNE 2013-AUGUST 2013
Assessed eelgrass genotypic diversity impacts. Advised by J. Stachowicz.

**TEACHING
EXPERIENCE**

TEACHING ASSISTANT UC DAVIS
MARCH 2019-JUNE 2019
Led two discussion sections for upper-division Environmental Policy Process course; graded papers and exams; mentored students.

OUTDOOR EDUCATOR MAINE OUTDOOR SCHOOL, ME
JUNE 2017-AUGUST 2017
Led outdoor education program for migrant farmer summer school.

TEACHING ASSISTANT COLLEGE OF THE ATLANTIC
SEPTEMBER 2013-JUNE 2014
Advised student research projects in introductory Marine Biology course.

CAMP COUNSELOR NATURE CAMPS INC, MD, USA
JUNE-AUGUST 2011, 2012, 2015
Led outdoor education at summer camp in Maryland.

**PUBLIC
ENGAGEMENT
(ONGOING)**

SUSTAINABLE OCEANS GRADUATE TRAINING PROGRAM
SEPTEMBER 2018-PRESENT
As trainee, envision and organize field trip, basecamp, and symposium to enhance collaboration between marine scientists and resource users.

CLIMATE CHANGE CONVERSATIONS DIALOGUE SERIES

SEPTEMBER 2018-PRESENT

With another graduate student and a professor, organize biweekly interdisciplinary conversations on personal implications of climate change

THE AGGIE BRICKYARD SCIENTIFIC AND LITERARY JOURNAL

SEPTEMBER 2018-PRESENT

Co-editor. Produce semi-annual editions featuring student work, faculty interviews, photography and art. <https://aggiebrickyard.github.io/>

ZEACOLOGY BLOG AND SOCIAL MEDIA PRESENCE

FEBRUARY 2016-PRESENT

Use social media platforms to share stories about human ecology and environmental policy. <http://www.zeacology.wordpress.com/>

**PUBLIC
ENGAGEMENT
(PAST EVENTS)**

#MOVINGBEYONDDIVERSITY101 DEI TRAINING

6 MAY 2019

With two coleaders, organized training on diversity, equity, and inclusion (DEI) challenges and implicit bias in fisheries science.

VOICES OF THE FISHERMEN'S FORUM ORAL HISTORY

1 MARCH 2019

With Maine SeaGrant and The First Coast, conducted and transcribed oral history interviews with attendees of Maine's Fishermen's Forum.

CAPITOL HILL CONGRESSIONAL VISITS ADVOCACY

11 APRIL 2018

With the Ecological Society of America, visited congressional offices and met with staffers to advocate for maintained NSF funding.

ROCKWEED RODEO COMMUNITY EVENT

6 MAY 2017

With Frenchman Bay Partners, organized and ran educational event on ecology and management issues in Maine's rockweed fishery.

STAND FOR SCIENCE COMMUNITY DEMONSTRATION

22 APRIL 2017

Organized March for Science companion event in Bar Harbor, Maine.

LYME RECEPTION PODCAST SCREENING AND DIALOGUE

20 MAY 2015

Presented my senior project, a podcast on the human ecology of Maine's emerging Lyme epidemic; facilitated group discussion.

**PUBLICATIONS
(SCIENTIFIC
WRITING)**

Thomsen, M., Hildebrand, T., South, P., Foster, T., Siciliano, A, Oldach, E., and Schiel, D. (2016). A sixth-level habitat cascade increases biodiversity in an intertidal estuary. *Ecology and Evolution*, 6.22: 8291-8303.

Oldach, E. (2017). The history of fauna in Cromwell Brook Watershed. Internal report for the National Park Service. Acadia National Park, Maine.

Oldach, E. and Shukla, P. (Forthcoming.). Vulnerability assessments. In Filho, W.L. (Ed.) *Encyclopedia of the UN Sustainable Development Goals. Industry, Innovation and Infrastructure*. Basingstoke, UK: Springer Nature.

**PUBLICATIONS
(CREATIVE
WRITING)**

“Smokeshock”, *COA Magazine*, February 2019. Personal reflection, climate change and California fires.

“The Gap”, *Brickyard*, Nov 2018. Personal reflection.

**CONFERENCE
PRESENTATIONS
& POSTERS**

Oldach, E., Roe, M., Webber, H., and Petersen, C. “Rockweed in Frenchman Bay: Stakeholder-engaged research on an ecologically and commercially valuable species.” Western Society of Naturalists Conference, 11 November 2018, Tacoma, WA. Poster.

Oldach, E., Thomsen, M., and Schiel, D. “Sixth-level Habitat Cascade in South Island Estuaries.” Australia-New Zealand Marine Science Society Joint Meeting, 5 July 2016, Wellington, NZ. Oral presentation.
Awarded: Best Use of Quantitative Methods in a Student Talk, from NZ Ministry for Primary Industry

Oldach, E., Thomsen, M., and Schiel, D. “Snail Grazing Impacts Algal Biomass in Estuarine Habitat Cascade.” University of Canterbury Annual Biology Conference, 22 September 2016, Christchurch, NZ. Oral presentation.
Awarded: Best Post-Baccalaureate Student Talk

**AWARDS AND
HONORS**

Sustainable Oceans— National Research Traineeship (2018)
National Science Foundation Graduate Research Fellowship (2018)
Northeast Storytelling Conference Next Generation Scholarship (2017)
Fulbright U.S. Student Scholarship (2016)
William Drury Award for Natural History (2015)
Moderator of All College Meeting (2015)
Research Experience for Undergraduates Scholarship (2014)
Maine Sea Grant Undergraduate Scholarship (2014)
Maine Space Grant for Independent Research (2014)
College of the Atlantic Presidential Scholarship (2013)
UC-Davis Henry A. Jastro Scholarships (2011)
UC-Davis Lloyd W. Swift Scholarship (2011)