

Benjamin Gordon Rubinoff

Pronouns: They/Them

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EDUCATION

Ph.D. in Marine Ecology September 2021

University of California Davis, Graduate Group in Ecology

Adviser: Dr. Edwin Grosholz

Dissertation: “Spatial and Temporal Variability in Processes Regulating Estuarine Fouling Communities”

B.S. in Environment and Natural Resources with Honors May 2016

The Ohio State University, School of Environment and Natural Resources

Major: Environmental Science, Specialization: Water Science

Adviser: Dr. Mažeika Sullivan

Graduated Magna Cum Laude with Honors Research Distinction

RESEARCH EXPERIENCES

Postdoctoral Fellow, University of Washington September 2022–Present

Washington Sea Grant, Crab Team / Program on the Environment (Adviser: P. Sean McDonald)

Analyzing a community and citizen science dataset on estuarine organisms, focused on early detection and impacts of invasive European green crabs (EGC) in the Puget Sound and Salish Sea. Collaborating with state agencies, tribal groups, NGO’s, and aquaculture to better manage and understand the impacts of European green crabs.

Postdoctoral Researcher, Smithsonian Institution November 2021–August 2022

Smithsonian Environmental Research Center, Marine Invasions Lab (Adviser: Greg Ruiz)

Analyzed temporal changes in detection rate of non-indigenous invertebrate species in Tampa Bay and Chesapeake Bay over the past 20 years. Co-organizing a working group on non-indigenous species monitoring that will host an event for international collaborators in Spring 2023. Coordinated the establishment of a long-term monitoring site for non-indigenous species in Duluth, MN.

PhD Dissertation Research, UC Davis May 2017–September 2021

Conducted field experiments to evaluate consumer-stress relationships along an estuarine gradient in Tomales Bay, CA. Surveyed various coastal habitats to identify spatial and temporal differences in sessile invertebrate communities and biological invasions.

Graduate Research Fellow, Smithsonian Institution June 2020–October 2021

Smithsonian Environmental Research Center

Assisted with the experimental design and analysis of a project aiming to collect data on invasions by non-native species in the Great Lakes (Duluth, MN) with the Marine Invasions Research Lab and Mid-Continent Ecology Division of the US EPA.

Short-Term Fellow, Smithsonian Institution January 2020–Present

Smithsonian Tropical Research Institute

Designed and deployed a field experiment to determine how predation strength differs across coral reef, seagrass, and mangrove habitats in Panama using video analysis.

Project to be completed in 2022 due to COVID-19 pandemic.

CA 2020 Election Data Challenge, UC Davis Data Lab October 2020

Participated in a California Election Data Challenge and evaluated property tax

variability in LA County. Analyzed public data to predict the economic outcome of assessing properties based off current land value as proposed in Proposition 15.

Interdisciplinary Community Science Research, UC Davis 2018–2019

Designed a citizen science program to evaluate how participation in online image analysis influences perception of marine invasive species. Collaborated with the UC Davis Center for Community and Citizen Science.

Honors Undergraduate Research Thesis, The Ohio State University 2013–2016

Conducted a laboratory experiment to identify the effects of artificial light at night on stream primary productivity in a common benthic diatom species.

Research Technician, UC Davis: Bodega Marine Laboratory September–December 2015

Assisted in field research and image analysis on a project investigating effects of short-term estuarine acidification on oyster growth and water chemistry in a Northern California estuary.

Independent Research, University of Washington: Friday Harbor Labs July–August 2015

Conducted an observational field experiment to understand effects of epiphyte coverage on epifaunal diversity in surfgrass habitats in the San Juan Islands, WA as part of a summer course in subtidal and intertidal ecology.

NSF REU Intern, Smithsonian Environmental Research Center May–August 2014

Designed and implemented an observational field experiment to identify patterns of infaunal community variation in the Rhode River, MD. Assisted in the development of a soft-sediment biodiversity survey protocol for MarineGEO.

PUBLICATIONS

Rubinoff, B. & Grosholz, E. (2022). Biological invasions alter consumer-stress relationships along an estuarine gradient. *Ecology* 103:e3695

Rubinoff, B. (2021). Spatial and Temporal Variability in Processes Regulating Estuarine Fouling Communities. Ph.D. Dissertation. University of California, Davis. *ProQuest*. <https://www.proquest.com/dissertations-theses/spatial-temporal-variability-processes-regulating/docview/2600360903/se-2?accountid=14505>

Janiak, D.S., Adams, J.N., **Rubinoff, B.**, Osman, R.W. (2017). Predator-Prey Interactions of the Polyclad, *Euplana gracilis*, and the Amphipod, *Apocorophium lacustre*, in the Chesapeake Bay. *Estuaries and Coasts* 40: 513.

Rubinoff, B. (2016). An Urban Migraine: The Influence of Artificial Light at Night on Aquatic Primary Productivity. Honors Thesis. *OSU Knowledge Bank*. <https://kb.osu.edu/handle/1811/86227>

TEACHING, OUTREACH, AND ACADEMIC SERVICE

Interview on West Marin Naturalist Hour (KWMR 90.5FM) 2022

Teaching Assistant, *UC Davis*

Principles of Ecology 2020, 2021

Introduction to Ecology and Evolution 2019, 2020

Marine Ecology 2017

Career Panelist in Summer Session I, *Bodega Marine Lab* 2020

Bodega Marine Science Association, Executive Committee 2017–2020

Active meeting attendee, *Tomaes Bay Watershed Council* 2017–2020

Research presentation	2018, 2019
John and Mary Louise Riley Seminar Series, <i>Bodega Marine Lab</i>	2018–2019
Coordinator and Chair	
Private Outreach Event, <i>Teachers Beach Homeowners Association</i>	2019
Piner High School Visit, <i>Bodega Marine Laboratory</i>	2018
Science Day Participant, <i>West Marin Elementary School</i>	2017
Biologist on the Beach, Celebrate the Coast: <i>Tomales Bay State Park</i>	2017

PRESENTATIONS AND CONFERENCES

Invited Talks

SFSU Estuary and Ocean Science Center Seminar Series	2022
Smithsonian Tropical Research Institute Naos Seminar Series	2020
Science Uncorked Seminar Series	2019

Conferences (Oral Presentations)

International Conference on Marine Bioinvasions	2023
Joint Aquatic Sciences Meeting	2022
Western Society of Naturalists Annual Meeting: Attendee	2015–2020
Oral Presentation	2015, 2020
International Conference on Aquatic Invasive Species	2019
Coastal & Estuarine Research Federation Annual Conference	2015

Conferences (Poster Presentations)

Denman Undergraduate Research Forum: Poster presentation	2015
Third Prize in Food, Agricultural, Environmental, and Ecological Sciences	
CFAES Research Forum: Poster presentation	2015
First prize in Environmental Science	

Symposia (Oral Presentations)

Beyond the Golden Gate Research Symposium: Oral Presentation	2022
Coastal and Marine Sciences Institute Symposium: Attendee	2019–2021
Oral presentation	2019
Graduate Group in Ecology Research Symposium: Attendee	2016–2019
Oral presentation	2019
Diversity committee representative and session organizer	2017–2018
Tomales Bay Research Symposium: Oral presentation	2018
Co-chair on planning committee and moderator	

WORKSHOPS AND TRAININGS

Smithsonian Mentor Training	2022
Species distribution modeling in the marine environment (QGIS & R)	2021
Introduction to Structural Equation Modeling	2018
Conversations in Community and Citizen Science	2018
Software Carpentry Workshop	2018
Science Communication Workshop	2017
Contaminants in the San Francisco Bay-Delta	2017
Invasive Plant Eradication & Endangered Species Recovery in Coastal & Aquatic Systems	2016
NSF GRFP Writing Workshop	2016

GRANTS, FELLOWSHIPS, AND AWARDS

University of California, Davis

California Sea Grant Trainee (\$32,000)	2018–2021
Henry A. Jastro Research Fellowship (\$5,750)	2018–2020
Mentoring at Critical Transitions Fellowship (\$6,000)	2018
Russell J. and Dorothy S. Bilinski Fellowship (\$20,000)	2018
Graduate Group in Ecology Fellowship (\$24,000)	2016–2018

External Funding

Short-Term Fellowship, <i>Smithsonian Tropical Research Institute</i> (\$6,000)	2019–2020
Neubacher Fund for Marine Science, <i>Point Reyes National Seashore</i> (\$6,000)	2019
NSF Research Experience for Undergraduates, <i>Smithsonian Institution</i> (\$4,000)	2014

The Ohio State University

Four years of Dean’s List Honor Roll	2012–2016
Board of Trustees Student Recognition Award	2015
Honors Enrichment Grant (\$1000)	2015

RELEVANT COURSEWORK

University of California, Davis

Design of Field-Based Experiments in Marine Science (Organizer)
Experimental Design and Analysis using generalized linear models
Climate Change and Marine Invasions (Organizer)
Estuarine Circulation and Oceanography

The Ohio State University

Conservation and Management of Aquatic Populations
Watershed Hydrology
Fisheries Science
Oceanography

RESEARCH DIVING AND BOATING

AAUS, Scientific Diving Authorization maintained at Bodega Marine Lab (50’)	2019–Present
<ul style="list-style-type: none">Over 40 dives, low visibility dives, Temperate and Tropical dive experience, extensive freediving and snorkeling experience	
DAN, Diving First Aid for Professional Divers	2019–Present
<ul style="list-style-type: none">CPR, First Aid, Oxygen Administration	
NAUI, Rescue Diver	2019–Present
PADI, Open Water Diver	2019–Present
Motorboat Operator Certificate through U.S. Fish and Wildlife	2017
California Boating License	2016–Present
<ul style="list-style-type: none">Over 50 hours of boating experience, 50+ hours of towing and trailer operation	

TECHNOLOGICAL PROFICIENCIES

Data Analysis: R, R Studio, Shiny Apps, JMP, Primer, SPSS, ImageJ, GitHub, CPCE, QGIS, CoralNet

Oceanographic Instruments: CTD (Sea-Bird), bottle sampling (Niskin), handheld sonde (YSI, In-Situ), Secchi disk, Temperature logger (HOBO)

Laboratory: Compound microscopy, water filtration, combustion oven operation, fume hood operation, biological sample preservation and storage

Core Software (Mac & PC): Word, Powerpoint, Excel, Pages, Numbers, Keynote

Social Media: Twitter, Instagram, Wordpress, Facebook, Twitch, Slack, Discord

Other: Adobe Photoshop, iMovie, Garage Band, Audacity, OBS, Canva

DIVERSITY, EQUITY, AND INCLUSION

Washington Sea Grant DEI Development and Training Collective, Co-chair	2023
Invasions Lab Inclusion, Diversity, Equity, and Accessibility Committee Member	2022
Bodega Diversity, Equity, and Inclusion Committee, Co-founder and co-chair	2019–2021
Graduate Group in Ecology Diversity Committee, Member	2016–2021
Graduate Student Recruitment Workshop Series: Co-organizer and participant	2018
Rethinking Identity: Empowering graduate scholars for inclusion and activism Co-organizer and participant	2018

REFERENCES

P. Sean McDonald Ph.D.

Associate Teaching Professor, *University of Washington*

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Edwin Grosholz, Ph.D.

Professor and Cooperative Extension Specialist, *University of California Davis*

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Catherine de Rivera, Ph.D.

Professor, *Portland State University*

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