

Benjamin Gordon Rubinoff

Pronouns: He/His/Him

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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 Researcher, Smithsonian Institution November 2021–Present

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

Analyzing temporal changes in detection rate of non-indigenous benthic invertebrate species in Tampa Bay and Chesapeake Bay over the past 20 years. Generating a report for the US Coast Guard and organizing a working group on non-indigenous species monitoring at the 2022 Marine Bioinvasions Conference.

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.

<https://github.com/brubinoff/batstaRs-Data-Challenge-2020>

Interdisciplinary Collaborative 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 the Smithsonian's Tennenbaum Marine Observatories Network.
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TECHNOLOGICAL PROFICIENCIES

Data Analysis: R, R Studio, 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

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
- 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
- CPR, First Aid, Oxygen Administration
- NAUI, Rescue Diver 2019–Present

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| 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 | |

PUBLICATIONS

- Rubinoff, B.** & Grosholz, E. (2021). Evaluating consumer-stress relationships along an estuarine gradient. Manuscript *in revision*. *Ecology*.
- 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

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| Teaching Assistant, <i>UC Davis</i> | |
| Principles of Ecology | 2020, 2021 |
| Introduction to Ecology and Evolution | 2019, 2020 |
| Marine Ecology | 2017 |
| Career Panelist in Summer Session I, <i>Bodega Marine Lab</i> | 2020 |
| Bodega Marine Science Association, Executive Committee | 2017–2020 |
| Active meeting attendee, <i>Tomales Bay Watershed Council</i> | 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

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| Smithsonian Tropical Research Institute Naos Seminar Series | 2020 |
| Science Uncorked Seminar Series | 2019 |

Conferences (Oral Presentations)

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| 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)

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| 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 ATTENDED

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| 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

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| 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

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| 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

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

DIVERSITY, EQUITY, AND INCLUSION

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| 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 | 2018 |
| Co-organizer and participant | |

REFERENCES

Edwin Grosholz, Ph.D.

Professor and Cooperative Extension Specialist, *University of California Davis*
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Gregory Ruiz, Ph.D.

Principle Investigator and Senior Scientist, *Smithsonian Environmental Research Center*
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John J. Stachowicz, Ph.D.

Department Chair and Professor, *University of California Davis*
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