

# Benjamin Gordon Rubinoff

Pronouns: He/His/Him

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## EDUCATION

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**Ph.D. Candidate in Marine Ecology** expected August 2021

*University of California Davis, Graduate Group in Ecology*

Adviser: Dr. Edwin Grosholz

Dissertation Focus: Benthic Invertebrate Communities, Biological Invasions

**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

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**PhD Dissertation Research, UC Davis** May 2017–Present

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. Analyzed a 10-year dataset to identify how changes in oceanographic conditions influence the distribution of non-native species and patterns of biodiversity.

**Short-Term Fellow, Smithsonian Tropical Research Institute** January 2020–Present

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 2021 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.

## TECHNOLOGICAL PROFICIENCIES

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**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, Tumblr, Twitch, Slack, Discord

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

## RELEVANT COURSEWORK

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### University of California, Davis

Design of Field-Based Experiments in Marine Science (Organizer)

Experimental Design and Analysis

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

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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

PADI, Open Water Diver 2019–Present

Motorboat Operator Certificate through U.S. Fish and Wildlife 2017

California Boating License 2016–Present

- Over 50 hours of boating experience, 50+ hours of towing and trailer operation

## PUBLICATIONS

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

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

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### Invited Talks

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

### Conferences (Oral Presentations)

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)

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 and Endangered Species Recovery in Coastal and Aquatic Systems Workshop	2016
NSF GRFP Writing Workshop	2016

## GRANTS, FELLOWSHIPS, AND AWARDS

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### 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

## DIVERSITY, EQUITY, AND INCLUSION

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Bodega Diversity, Equity, and Inclusion Committee, Co-founder and co-chair	2019–Present
Graduate Group in Ecology Diversity Committee, Member	2016–Present
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

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### Edwin Grosholz, Ph.D.

Professor and Cooperative Extension Specialist, *University of California Davis*  
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### Mark Torchin, Ph.D.

Staff Scientist, *Smithsonian Tropical Research Institute*  
[torchinm@si.edu](mailto:torchinm@si.edu), +507 212-8713

### John J. Stachowicz, Ph.D.

Department Chair and Professor, *University of California Davis*  
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