

OLIVIA K. RHOADES

California Ocean Science Trust
2201 Broadway Suite #101, Oakland, CA 94612
(510-394-5729); olivia.rhoades@oceansciencetrust.org

EDUCATION

Ph.D., Population Biology, University of California, Davis, CA 2010-2017
Dissertation: Causes and consequences of behavioral trait variation for marine community dynamics GPA 4.0
Advisor: Professor John J. Stachowicz

B.S., Biology, Brown University, Providence, RI 2005-2009
Advisor: Professor Jon D. Witman GPA 3.8
Graduated with Honors

RESEARCH EXPERIENCE

Science Integration Fellow, California Ocean Science Trust and Southern California Coastal Water Research Project 2014-2017

- Collaborate with natural resource and water quality agencies and managers to assess impacts of multiple stressors on marine protected areas

Monterey Bay National Marine Sanctuary Research Collaborator 2014-2017

- Collaborate with Senior Scientist Steve Lonhart to survey fish behavior in MBNMS

California Department of Fish and Wildlife Volunteer and Collaborator 2010-2013

- Assisted with red abalone surveys and collaborated with CDFW Senior Biologists to tag and track red abalone

Research Technician, University of North Carolina 2009-2010

- Conducted otolith extraction and elemental fingerprinting analysis to assess connectivity of grouper and snapper fish populations

Research and Field Assistant, Laval University Summer/Fall 2009

- Assisted with study of dispersal and recruitment of invasive tunicates and algae

Independent Researcher, Brown University 2007–2009

- Senior thesis title: “Impacts of La Niña bleaching on coral-associated invertebrates and fish in the Galápagos archipelago”

NSF Research Experience for Undergraduates, Shoals Marine Lab Summer 2007

- Project title: “Predation mortality and defensive behaviors of the green urchin *Strongylocentrotus droebachiensis* in the Gulf of Maine”

Research Intern, Center for Biological Diversity 2004-2005

- Researched threatened species of Northern Idaho ground squirrel to promote squirrel recovery

MANUSCRIPTS IN PREP

Rhoades, O.K., Lonhart, S.I., and J.J. Stachowicz. In prep. Went to review, rejected from PNAS. “Predation rates in new marine reserves are reduced by slow recovery of bold behavioral traits.”

Rhoades, O.K., Lonhart, S.I., and J.J. Stachowicz. In prep. “Fishes alter behavior comparably in response to anthropogenic disturbances and environmental variation.”

Rhoades, O.K. and J.J. Stachowicz. In prep. “Individual variation influences herbivore feeding preference across a rocky reef species assemblage.”

REPORTS

Rhoades, O.K. and J.D. Witman. “Resilience in diverse communities: implications for coral associates after a bleaching event.” In: M. Wolff and M. Gardener (eds.), Proceedings of the 2009 Galapagos Science Symposium, Charles Darwin Foundation, Puerto Ayora, Ecuador.

TEACHING

National Science Foundation Teaching Fellow, Bodega Marine Laboratory 2012-2014

- Served as a representative scientist in a middle school science club, taught weekly lessons about local marine habitats, and mentored students as they conducted marine experiments

Teaching Assistant, Evolution and Ecology, UC Davis 2010-2012, 2015, 2017

- Courses: Ecology, Invertebrate Zoology, and Introduction to Ecology and Evolution Series

Personal Tutor, Ecology and Evolution Series, UC Davis Spring 2012

Teaching Assistant, Evolution and Ecology, Brown University Winter/Spring 2009

- Course: Introduction to Ecology

GRANTS/AWARDS/HONORS

Best Student Talk (Applied Conservation Award) Western Society of Naturalists 96th Meeting (2015)
“Impacts of fishing and diving on fish flight and foraging behaviors across marine reserves”

Best Student Talk (Applied Conservation Award) Honorable Mention Western Society of Naturalists 95th Meeting (2014)
“Impacts of fishing and SCUBA diving on fish flight responses in marine reserves”

Natural Reserves Grant University of California, Davis (2014) \$3000

Center for Population Biology Research Award	University of California, Davis (2011-2014) \$1200; \$1750; \$1200; \$1200
Bodega Marine Laboratory Fellowship	University of California, Davis (2014) One quarter of stipend and tuition
Sigma Xi, Associate Member	Brown and UC Davis Chapters (2009-Present)
NSF GK-12 Teaching Fellowship	National Science Foundation (2012-2014) Coastal Atmospheric, and Marine Environmental Observing Studies \$30,000/year
NSF Graduate Research Fellowship Honorable Mention	(2010, 2011, 2012)
Marine Sciences Scholarship	Central California Council of Dive Clubs (2011) \$1000
Senior Prize in Biology	Brown University (2009)

ORAL PRESENTATIONS

O.K. Rhoades. Bioassessment Tools for California MPAs. 2017. California Ocean Science Trust, Oakland, CA.

O.K. Rhoades, S.I. Lonhart, J.J. Stachowicz. Fish flight behaviors and habitat use vary by species, MPA age, and SCUBA traffic. 2016. Western Society of Naturalists, Monterey, CA.

O.K. Rhoades, S.I. Lonhart, J.J. Stachowicz. Looking beyond fish abundance and size: impacts of fish behavior on the recovery of ecosystem function in marine reserves. 2016. Benthic Ecology Meeting, Portland, ME.

O.K. Rhoades, S.I. Lonhart, J.J. Stachowicz. Impacts of fishing and diving on fish flight and foraging across marine reserves. 2015. Western Society of Naturalists, Sacramento, CA. **Best Student Talk, Mia Tegner Applied Ecology/Conservation Biology Award.**

O.K. Rhoades, S.I. Lonhart. Fishing and diving impact fish flight and foraging behaviors in Monterey Bay National Marine Sanctuary. 2015. Monterey Bay National Marine Sanctuary Staff Meeting, Monterey, CA.

O.K. Rhoades. Chasing and chumming: determining how divers impact fish behavior. 2015. Gourmet Au Bay Science Uncorked, Public Presentation.

O.K. Rhoades, S.I. Lonhart, J.J. Stachowicz. Impacts of fishing and SCUBA diving on fish flight responses in marine reserves. 2014. **Honorable Mention, Mia Tegner Applied Ecology/Conservation Biology Award.**

O.K. Rhoades, S.I. Lonhart. Incorporating animal behavior into community ecology and marine management. 2014. Monterey Bay National Marine Sanctuary Staff Meeting.

O.K. Rhoades. Red abalone tagging highlights individual variation in habitat selection and movement. 2012. Central California Council of Dive Clubs.

O.K. Rhoades, M. Brandt, J.D. Witman. Resilience in diverse communities: implications for coral associates after multiple bleaching events. 2009. Galapagos Science Symposium, Puerto Ayora, Galapagos. (poster)

O.K. Rhoades, M. Brandt, J.D. Witman. Impacts of La Niña bleaching on *Pocillopora* spp. and associated invertebrates and fish. 2009. Brown University Evolution and Ecology Seminar.

RELEVANT SKILLS

- R Programming and Bayesian Statistical Methods
- AAUS Scientific Research Diver and NAUI Dive Master In-Training, >600 research dives in temperate and tropical waters
- MOTC training and small boats operation, UC Davis and UC Santa Cruz
- Spanish language fluency (speaking, reading, and writing)

PUBLIC OUTREACH

Bodega Marine Lab, student representative and tour guide 2011-Present

- Give lab tours and science demonstrations to student groups and to the public

Environmentors National College Access Initiative, mentor 2011-2012

- Mentored a student at an underperforming high school in Yolo county in the design and execution of a science experiment for a national science fair

Open Access Science Book Club, co-founder and organizer 2011-2012

- Organized a book club at Yolo County public libraries to discuss popular science books

PROFESSIONAL SERVICE

- Bodega Marine Lab Seminar Committee Chair, 2013-2015
- UC Davis Center for Population Biology Postdoc Search Student Representative, 2014

PROFESSIONAL ASSOCIATIONS

- Sigma Xi
- Western Society of Naturalists
- National Shellfisheries Association

STUDENTS MENTORED (graduation year, current status)

- Blake Hamilton (UCD '16, Sonoma County Water Agency), Madison Snyder (UCD '17), Scott Borsum (UCSC '15, UD M.S. student), Erica Ferrer (UCSC '16, UCSB Ph.D. student), Adriana Craft (CSUMB '16), Nettie Bodwell (CSUMB '16), Alexa Rosendale (HSU '14, MLML M.S. student), Ethan Evans (Analy High School '15, UCSB '19), Miranda Mintonye (Willowside Middle '14, Piner High '18), Anthony Disbrow (UCD '12, Keysight Technologies), Danielle Kronk ('13, Life Chiropractic College West), Lennah Shakeri (UCD '13, USM M.S. student), Angelica Munguia (UCD '13, OSU M.S. student), Shyla Storm (Woodland High School '14, US Army Military Police), Natalie Low (Brown University '12, Stanford Ph.D. candidate '17)