

SUSANNA HONIG

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CURRENT

HHMI Postdoctoral Science Education Fellow 2015-Present
University of California Santa Cruz
Molecular, Cell & Developmental Biology Department

EDUCATION

University of California, Santa Cruz 2015
Ecology & Evolutionary Biology, Ph.D.

University of California, Santa Cruz 2010
Ecology & Evolutionary Biology, M.A.

University of California, Santa Barbara 2008
Aquatic Biology, B.S.
College Honors, Highest Honors, Cumulative GPA 4.0

PUBLICATIONS

Honig, S.E., Mahoney, B., Glanz, J.S., Hughes, B.B. Are seagrass beds indicators of anthropogenic nutrient stress in the rocky intertidal? *Marine Pollution Bulletin* 2017, 114(1): 539-546. (doi: 10.1016/j.marpolbul.2016.10.020)

Honig, S.E. and Mahoney, B. 2016. Evidence of seabird guano enrichment on a coral reef in Oahu, Hawaii. *Marine Biology* 2016, 163(2): 22. (doi: 10.1007/s00227-015-2808-4)

Moore, J.W., Lambert, T.D., Heady, W.N., **Honig, S.E.**, Osterback, A.K., Phillis, C.C., Quiros, A.L., Retford, N.A., Herbst, D.B. 2014. Anthropogenic land-use signals propagate through stream food webs in a California watershed. *Limnologica* 2014, 46: 124-130. (doi: 10.1016/j.limno.2014.01.005)

PUBLICATIONS IN PREPARATION

Honig, S.E., Croll, D.A., Brainard, R.B., Huff, D.D., Tershy, B.R. Seabird nutrient subsidies influence coral reef communities at the landscape level.

Honig, S.E., Brainard, R.B., Croll, D.A. Evidence of nutrient enrichment by seabirds on coral reef macroalgae at Rose atoll, American Samoa.

Honig, S.E., Dunkin, R., Hunter, L. Using Rap Genius and the Claim, Evidence, and Reasoning Framework to Improve Student's Ability to Interpret Scientific Papers.

GRANTS

National Science Foundation Doctoral Dissertation Improvement Grant	2011
UC Santa Cruz Graduate Student Association Travel Grant	2011
Friends of Long Marine Lab Student Education and Research Award	2011
Center for Tropical Research in Ecology, Agriculture and Development Tropical Research Grant	2010
Dr. Earl and Ethel Myers Marine Biology and Oceanographic Trust Award	2009
SEAPRE (an NSF Research Coordination Network) Junior Scientist Exchange Award	2009

AWARDS

UC Santa Cruz Grad Slam-Three-minute Thesis 2 nd Place	2015
Capitola-Aptos Rotary Club Henry and Vera Piatt Fellowship	2013
UC Santa Cruz Dissertation Year Fellowship	2013
UC Santa Cruz Outstanding Teaching Assistant	2013
UC Santa Cruz Teaching Assistant Sabbatical Fellowship	2011
UC Santa Barbara Regents Scholarship	2004-2008
UC Santa Barbara Dean's List	2004-2008

TEACHING EXPERIENCE

Co-Instructor at the University of California Santa Cruz Winter 2017, Spring 2016
Development & Physiology, Active Learning Section

Co-Instructor at the University of California Santa Cruz Fall 2016
Intro to Ecology & Evolution, Active Learning Section

COSMOS Inructor at the University of California Santa Cruz Summer 2016
Marine Conservation

Associate Instructor at the University of California Santa Cruz Summer 2015, 2014
Behavioral Ecology

Guest Lecturer at the University of California Santa Cruz	8 Guest Lectures
Intro to Ecology & Evolution	Spring 2015, Spring 2013
Ecology	Summer 2013
Freshwater Ecology	Fall 2012
Marine Conservation Biology	Fall 2011, Fall 2010, Fall 2009
Ecological Field Methods	Spring 2011

Teaching Assistant at the University of California Santa Cruz	13 Quarters
Intro to Ecology & Evolution	Spring 2015, Winter 2013, Winter 2010, Spring 2009
Ecology	Spring 2013
Freshwater Ecology	Fall 2012
Marine Ecology Laboratory	Spring 2012, Spring 2010
Ecological Field Methods	Spring 2011
Marine Conservation Biology	Fall 2010, Fall 2009, Fall 2008
Animal Physiology	Winter 2009

PROFESSIONAL EXPERIENCE AND RESEARCH ACTIVITIES

Graduate Student Researcher 2011
University of California Santa Cruz
 I used XBAT software to analyze bioacoustic data generated from songmeter recordings on Palmyra Atoll to assess the call rate of the Bristle-thighed Curlew, *Numenius tahitiensis*, a threatened seabird.

Subtidal Field Technician 2007-2008
University of California Santa Barbara
 I participated in dive surveys along permanent transects in the Santa Barbara Channel to assess sea water nutrients and the biomass and distribution of giant kelp, understory algae, and associated invertebrates with the Santa Barbara Coastal Long Term Ecological Research Lab (SBC LTER).

Fellow, NSF Research Experience for Undergraduates 2007
University of California Santa Barbara
 I participated in annual benthic monitoring kelp biomass surveys, seawater nutrient sampling, and graduate student subtidal experiments using SCUBA as part of a Research Experience for Undergraduates fellowship with the Santa Barbara Coastal Long Term Ecological Research Lab (SBC LTER).

Research Assistant 2005
University of California Santa Cruz
 I assisted PhD student Mary Langsner at Bodega Bay Marine Laboratory assessing the impact of mercury on the multixenobiotic resistance (MXR) pump in teleost fishes.

PRESENTATIONS (ORAL)

Honig, S.E. *Seabirds to coral reefs: nutrient flow across threatened communities.* Cabrillo College Natural History Club. Aptos, California, 16 April 2015.

Honig, S.E. *Seabirds to Reefs: A Messy Connection.* University of California Santa Cruz Grad Slam Three-minute Thesis Competition. Santa Cruz, California, 6 March 2015.

Honig, S.E. *Seabirds and coral reefs: An update.* Rotary Club of Capitola-Aptos. Aptos, California, 12 June 2014.

Honig, S.E. *Seabirds to coral reefs: Assessing nutrient flow in threatened ecosystems.* Rotary Club of Capitola-Aptos. Aptos, California, 17 October 2013.

Honig, S.E., Mahoney, B., Croll, D.A., Tershy, B.R. *Evidence of nutrient enrichment by seabirds on coral reefs in Oahu, Hawaii.* Ecological Society of America Annual Meeting. Minneapolis, Minnesota, 4-9 August 2013.

Honig, S.E., Maynard, N., Shelton, A., Teneva, L. *Pacific Islanders Navigating Coral Reef Revival.* Center for Ocean Solutions Monterey Area Research Institution's Network (MARINE) Ocean Colloquium. Monterey, California, 13 April 2013.

Honig, S.E. *Seabirds and reefs.* Seabirds and Introduced Predators (SEAPRE) Annual Meeting. Orcas Island, Washington, 8-13 April, 2009.

PRESENTATIONS (POSTER)

Heady, W.N., **Honig, S.E.,** Lambert, T.D., Osterback, A.K., Phillis, C.C., Quiros, A.L. *Changes in stream ecosystems along an anthropogenic gradient.* University of California Santa Cruz Graduate Student Research Symposium. Santa Cruz, California, 14 May, 2010.

SERVICE & OUTREACH

Organizer, Active Learning Seminar Series 2016

I helped organize and host (together with two other postdoctoral scholars) the 2016-2017 Active Learning Seminar Series, a monthly interdepartmental lecture series at UC Santa Cruz that highlights the work of visiting and resident scientists who use active learning techniques in their teaching.

Panelist, Secondary Science Teacher Training for Pajaro Valley Unified School District (PVUSD) 2016

I served on a panel of scientists and engineers to discuss scientific phenomena and how to use phenomena to engage students in science education for middle school and high school science teachers.

Search Committee Member, Coastal Sustainability-Biology and Policy 2013
Assistant Professor Position

I served as the sole graduate student member of a search committee for a tenure-track faculty position through the Ecology & Evolutionary Biology Department at UC Santa Cruz.

Mentor to Undergraduate Independent Research Project 2012

I mentored visiting undergraduate Alec Scott's independent research project assessing the impact of seabird guano on offshore rocks of the North Coast of Santa Cruz and San Mateo County.

Panelist, UCSC Biology Senior Seminar Graduate Student Panel 2010

I was a panelist for UCSC's Undergraduate Biology Senior Seminar Series.

Manuscript Reviewer, *Oikos* 2010

SPECIAL COURSES

Professional Development Program, Institute for Scientist and Engineer Educators (ISEE) 2017, 2016

I attended the inquiry and design institutes hosted by the UC Santa Cruz ISEE PDP and helped develop curriculum for Ecology & Evolution that included inquiry-based teaching techniques, equity and inclusion, and assessment, the three themes of PDP. In my second year of this program, I served as a design team leader where I was responsible for leading a team of 3-4 PDP members to present a team-made inquiry activity at the WEST (Workshops for Engineering and Science Transfers) program.

Center for Ocean Solutions Ocean Leadership Practicum 2013

I attended an intensive week-long course on Ocean Leadership held by Stanford University's Center for Ocean Solutions.

Science Communication Course at UCSC 2012

I completed a ten-week course at UC Santa Cruz that trained advanced scientists how to effectively communicate to journalists, K-12 students, and the public.

Monterey Bay Regional Mentorship Alliance: Mentor Training Workshop 2012

I attended a cross-institutional workshop led by CSU Monterey Bay to discuss mentorship strategies, develop mentor philosophies and improve graduate student research mentorship.

Tuolumne, Calaveras, Amador Teachers teaching Science (TCATS) Institute 2011

I participated in a full week of professional development workshops teaching hands-on marine science lesson plans to elementary school and middle school teachers from the Central Valley and Sierra Nevada foothills.

Catalina Island Marine Institute

2014, 2013, 2012, 2011, 2010, 2008

I joined Aptos High School's Marine Biology class as a science chaperone for six, week-long trips to the Catalina Island Marine Institute. In addition, I assisted in the acquisition of private funding for underrepresented students who could not afford the trip.