
Kristy J. Kroeker

Stanford University • Hopkins Marine Station
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EDUCATION

Stanford University (2007-Present, Expected completion in 2013)

- Ph.D. Candidate • Biological Sciences
- Advisor: Dr. Fiorenza Micheli

Brown University (2005-2006)

- Graduate student • Ecology and Evolutionary Biology
- Advisor: Dr. Mark Bertness

University of California, Santa Cruz (1996-2000)

- Major: Marine Biology (Honors in the major, Honors in the college)
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RESEARCH INTERESTS

Marine community ecology, climate change, ocean acidification, cumulative impacts, species interactions, marine conservation strategies

PUBLICATIONS

Crain, C.M., **Kroeker, K.**, and B.S. Halpern (2008). Interactions and cumulative impacts of multiple stressors in marine ecosystems. *Ecology Letters* 11: 1304-1315

Kroeker, K.J., Kordas, R.L., Crim, R.N., and G.G. Singh. (2010). Meta-analysis reveals negative yet variable effects of ocean acidification on marine organisms. *Ecology Letters*, In press.

FELLOWSHIPS AND AWARDS

Rising Environmental Leaders Fellow, Woods Institute for the Environment (2009)

Arthur C. Giese Award, Hopkins Marine Station (2009)

Grover Hermann Foundation Fellowship in Marine Studies, Stanford University (2008/2009)

Fletcher Jones Foundation Graduate Fellowship, Stanford University (2007)

National Science Foundation Graduate Research Fellowship (2006)

National Estuarine Research Reserve System Graduate Research Fellowship (2006)

Priscilla Parkins Memorial Scholarship, UCSC (2000)

GRANTS

Stanford Vice President of Graduate Education SCORE grant, "The effects of ocean acidification on benthic community structure: A novel study of naturally elevated CO₂ levels on shallow-

water volcanic vent ecosystems” (2008)

Dr. Earl H. Myers and Ethel M. Myers Oceanographic and Marine Biology Trust, “The Effects of Multiple Stressors on Rocky Reef Community Structure and Function” (2008)

PROFESSIONAL EXPERIENCE

The Nature Conservancy Global Marine Initiative, Research technician (2007)

- Performed research and support for all marine initiatives
- Dr. Mike Beck, The Nature Conservancy

Antarctic Marine Living Resources Division (NOAA), Research technician (2005)

- Research examined the relationship between Antarctic krill species, their predators, and environmental stressors, near the Antarctic Peninsula.
- Dr. Valerie Loeb, Moss Landing Marine Laboratories.

Oceanities Inc., Field biologist (2005)

- Performed census of seabirds in the Antarctic Peninsula to monitor population dynamics, and inter-annual variation in reproductive success.
- Ron Naveen, Oceanities, Inc.

Partnership for the Interdisciplinary Studies of Coasts and Oceans (PISCO), Research Technician (2000)

- Research was a long-term monitoring project of nearshore communities in California, Oregon, and Washington.
- Dr. Pete Raimondi, Ecology and Evolutionary Biology Dept, UCSC.

University of California, Santa Cruz, Research Assistant (1999)

- Research determined how predation and/or competition affect the mortality rates of juvenile damselfish.
- Dr. Mark Carr, Ecology and Evolutionary Biology Dept, UCSC

TEACHING EXPERIENCE

Stanford University, Teaching Assistant

Synthesis in Ecology (2009)

Marine Ecology (2008)

Brown University, Teaching Assistant

Invertebrate Zoology (2005)

Marine Ecology (2006)

Open Meadow Middle School, Portland, OR., Science Teacher (2003-2005)

A non-profit alternative middle school that serves youth-at-risk in North Portland.

GUEST LECTURES AND SEMINARS

“**The cumulative impacts of multiple stressors in marine ecosystems.**” Guest lecture at California State University Monterey Bay, Spring 2009.

“**Vegetated marine habitats.**” Guest lecture at Hopkins Marine Station Marine Ecology class, Winter 2008.

“**Climate change and multiple stressors.**” Guest lecture at Hopkins Marine Station Marine Ecology class, Winter 2008.

“**Multiple Stressors and Marine Ecosystems.**” Seminar at Dipartimento di Scienze Ambientali, University of Parma, Italy, Spring 2008.

TEACHING TRAINING

2006 Sheridan Center for Teaching and Learning, Brown University: Certificate I

INVITED PRESENTATIONS

Invited speaker and participant in Okeanos – Stiftung für das Meer “**Workshop on Cumulative Impacts/ Effects of Anthropogenic Stressors on Marine Mammals: From Ideas to Action,**” August 2009.

CONTRIBUTED PRESENTATIONS AND POSTERS

KJ Kroeker, M Gambi, F Micheli. Community-level and population-level changes in small mobile invertebrates in response to ocean acidification. *Presentation* at AGU Ocean Sciences Annual Meeting 2010, Portland OR.

YM Rii, M Cape, E Del Ser Lorente, J Dorman, **KJ Kroeker**, BJ Lindsey, DA Narvaez, R Wilson, J Fiechter, TM Powell. Effects of prey availability on the dispersal of adult Euphausiid populations off the Oregon coast: A numerical study. *Poster* at AGU Ocean Sciences Annual Meeting 2010, Portland OR.

KJ Kroeker, M Gambi, F Micheli. Shifts in Community Structure of Small Mobile Invertebrates to Ocean Acidification. *Presentation* at Annual Meeting of the Western Society of Naturalists, Monterey CA, Fall 2009.

WORKSHOPS AND SYMPOSIA

European Project on Ocean Acidification/BioAcid/Ocean Carbon and Biogeochemistry Training Workshop, **Best Practices in ocean acidification research**, March 2010.

COMPASS (Communications Partnership for Science and Sea) **Science Communication with the Media Workshop**, California State University Monterey Bay, December 2009.

Woods Institute for the Environment, **Interdisciplinary Team Design Basics Workshop**, Stanford University, November 2009.

COMPASS (Communications Partnership for Science and Sea) **Communicating with Policy Makers Workshop**, Hopkins Marine Station, 2008.

National Center for Atmospheric Research Advanced Study Program summer colloquium participant, “**Marine Ecosystems and Climate: Modeling and Analysis of Observed Variability**,” August 2009.

PRIMER workshop participant, “**Analysis of Multivariate Data from Ecology and Environmental Science using PRIMER v6**,” Summer 2008.

RELEVANT COURSEWORK

Marine Ecology
Synthesis in Ecology
Marine Biogeochemistry
Global Environmental Change
Oceanography
Quantitative Marine Science

OUTREACH

Seaside Boys and Girls Club, marine biology curriculum development and delivery (2007); 40 hours

Multnomah County School District, Antarctic ecosystems curriculum development and delivery (2005); 10 hours

Open Meadow Middle School, Antarctic ecosystems and climate change educational outreach (2005); 50 hours