

Nichole Noel Price, Ph.D.

Senior Research Scientist
Ocean Health and Marine Ecosystem Function
Bigelow Laboratory for Ocean Sciences (BLOS)
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RESEARCH INTERESTS

My research focuses on the ecophysiological and population response of marine benthic species to global and localized human impacts, which can redefine species ecological roles, shift community structure, and alter ecosystem function.

EDUCATION:

2008	Ph.D.	Ecology, Evolution, and Marine Biology, University of CA, Santa Barbara
2007	Masters	Statistics and Applied Probability, University of CA, Santa Barbara
2000	B.A. (<i>cum laude</i>)	Biology and Math, Connecticut College, New London, CT

GRADUATE ADVISORS AND POSTDOCTORAL SPONSORS:

JE Smith (postdoctoral sponsor, Scripps); SJ Holbrook (PhD committee, UCSB); R Nisbet (PhD committee, UCSB); PJ Edmunds (PhD committee, CSUN); RJ Schmitt (PhD advisor, UCSB)

APPOINTMENTS:

Senior Researcher	<i>Ocean Health and Marine Ecosystem Function, BLOS 2014-present. Temperate and tropical inorganic carbon cycling, biogeochemical feedbacks, applied ecology, mineralogy and dissolution, climate change, and ocean acidification.</i>
Project Scientist	<i>Center for Marine Biodiversity and Conservation, Marine Biology Research Division, SIO 2012-2014. Tropical benthic community dynamics, biogeochemical feedbacks, mineralogy and dissolution, carbonate chemistry, climate change, and ocean acidification.</i>
Postdoc Researcher	<i>Center for Marine Biodiversity and Conservation, Marine Biology Research Division, SIO 2010-2012. Temperate and tropical benthic marine ecology, algal physiology, community dynamics, carbonate chemistry, climate change, and ocean acidification.</i>
Postdoctoral Scholar	<i>Scripps Institutional Postdoctoral Scholar program, 2008-2010. Tropical benthic marine ecology, algal physiology, recruitment dynamics, species interactions, carbonate chemistry, and ocean acidification.</i>
Researcher	<i>Palmyra Atoll Research Consortium and the Nature Conservancy, 2008-present. Tropical coral reef herbivore abundance, grazing behavior, algal productivity, and benthic community structure.</i>
Researcher	<i>Northern Line Islands Research Cruise, SIO, SDSU, & ANSTO 2010. Species-specific and coral reef community assemblage metabolic and calcification rates, Chief Scientist: Stuart Sandin.</i>

Researcher	<i>NOAA Coral Reef Ecosystem Division, Pacific Remote Island Areas, Cruise Leg III, 2010. Rapid ecological assessment of the benthic community and carbonate chemistry for long-term monitoring on coral reefs, Chief Scientist: Jamison Gove.</i>
Guest Lecturer	UCSB (Ecology, Evolution, and Marine Biology Dept.), UCSD (Biological Sciences), SIO (Marine Biology Research Division) 2008-present
Graduate Assistant	<i>Taiwan International LTER, National Museum of Marine Biology and Aquarium, 2007 & 2008. Coral larval behavior, ocean acidification, and climate change.</i>
Graduate Assistant	<i>Marine Science Institute, UCSB 2006. Phylogenetics and population dynamics of temperate seagrasses.</i>
Field Biologist	<i>Centre de Recherches Insulaires et Observatoire de l'Environnement in Moorea, French Polynesia 2006. Rapid ecological assessment of the benthic community for long-term monitoring on coral reefs.</i>
Graduate Assistant	<i>Mo'orea Coral Reef Long Term Ecological Research Program (LTER), UCSB 2004-2008. Community ecology, population dynamics, and coral-algal interactions, and larval fish and coral recruitment.</i>
Teaching Assistant	UCSB (Ecology, Evolution, and Marine Biology Dept.) 2002-2008
Research Technician	<i>Brigham and Women's Hospital, Harvard 2000-2002. Gene expression and phenotypic response to multiple sclerosis and type II diabetes in mice.</i>
Research Technician	<i>Gulf of Maine Research Cruise, HBOI 1999 & 2000. Visual physiology and teleost feeding behavior for mid-water fishes, Chief Scientist: Eddie Widder</i>
REU Student	<i>Marine Biological Laboratory, 1999 & 2000. Juvenile toadfish predation behavior.</i>
Research Technician	<i>School for International Training, University of Dar es Salaam, Tanzania, 1998. Applied ecology: reforestation and conservation of mangroves.</i>

PUBLICATIONS:

- Edmunds PJ, Albright R, Carpenter RC, Chuie A, Fan T-Y, Harii S, Kitano H, Kurihara H, Legendre L, Mitarai S, Muko S, Nozawa Y, Padilla-Gamino J, **Price NN**, Sakai K, Steneck R, Suzuki G, van Oppen M, Yarid A, Satoh NL, & Gates RD. Geographic variation in long-term trajectories of change in coral recruitment: a global-to-local perspective. In review, *Marine and Freshwater Research*
- Price NN**, Albright R, Carpenter RC, Chuie A, Fan T-Y, Gates RD, Harii S, Kitano H, Kurihara H, Legendre L, Mitarai S, Muko S, Nozawa Y, Padilla-Gamino J, Sakai K, Steneck R, Suzuki G, van Oppen M, Yarid A, Satoh NL, & Edmunds PJ. Coral reefs on the move: worldwide recruitment declines and expansion to higher latitudes. In review, *Nature Climate Change*
- Price NN** Growth – grazer tolerance tradeoffs and competitive reversals among encrusting coralline algae: implications for coexistence. Submitted to *Journal of Phycology*
- Koweek D, Dunbar RB, Rogers JS, Williams GJ, **Price NN**, Mucciarone D, Teneva L. Environmental and ecological controls of coral community metabolism on Palmyra Atoll. In review, *Coral Reefs*
- Price, NN**[§], MD Johnson[§], and JE Smith. 2014. Contrasting effects of ocean acidification on tropical fleshy and calcareous algae. *PeerJ* 2:e411.
- Price NN**[§], Williams GJ[§], Ushijima B, Aeby GS, Callahan S, Davy SK, Gove JM, Johnson MD, Knapp IS, Shore A, Smith JE, Videau P, & Work TM. Ocean warming and acidification show complex interactive effects on the dynamics of a marine fungal disease. *Proc. Royal Soc. B* 281: 20133069

- Hamilton SL, Smith JE, **Price NN**, and Sandin SA. Quantifying patterns of fish herbivory on an uninhabited predator-dominated central Pacific coral reef, Palmyra Atoll (USA). In press, *Marine Ecology Progress Series*.
- Stewart HL, **Price NN**, Holbrook SJ, Schmitt RJ, and Brooks AJ (2013) Determinants of the onset and strength of mutualistic interactions between branching corals and associate crabs. *Marine Ecology Progress Series*. DOI 10.3354/meps10525.
- Smith JE, **Price NN**, Nelson CE, and Haas AF (2013) Coupled changes in dissolved oxygen and pH caused by metabolism of benthic coral reef organisms. *Marine Biology*. DOI 10.1007/s00227-013-2239-z.
- Price NN**, Martz TR, Brainard RE, and Smith JE (2012) Diel variability in seawater pH relates to calcification and benthic community structure on coral reefs. *PLoS ONE* 7(8): e43843
- Buenau K, **Price NN**, and Nisbet RJ (2012) Size dependence, facilitation, and microhabitats mediate space competition between coral and crustose coralline algae. *Ecological Modeling*. 237:23-33
- Hofmann GE, Smith JE, Johnson KS, Send U, Levin LA, Micheli F, Paytan A, **Price NN**, Peterson B, Takeshita Y, Matson PG, Crook ED, Kroeker KJ, Gambi MC, Rivest EB, Frieder CA, Yu PC, and Martz TR (2011) High-frequency dynamics of ocean pH: a multi-ecosystem comparison. *PLoS ONE*. 6 (12) e28983
- Price NN**, Hamilton SL, Tootell J, and Smith JE (2011) Species-specific consequences of ocean acidification for the calcareous tropical green algae *Halimeda*. *Marine Ecology Progress Series*. 440:67-78
- Buenau K, **Price NN**, and Nisbet RJ (2011) Local interactions drive size dependent space competition between coral and crustose coralline algae. *Oikos*. 120:941-949 (awarded Editors Choice)
- Price NN** (2010) Habitat selection, facilitation, and biotic settlement cues affect distribution and performance of coral recruits in French Polynesia. *Oecologia*. 163(3):747-758 (top 20 Jan-May 2013)
- Mensingher, AF, **Price NN**, Richmond H, Forsythe JW, and Hanlon RT (2003) Mariculture of the oyster toadfish, *Opsanus tau*. Juvenile growth and survival. *North American Journal of Aquaculture*. 65(4): 289-299.
- Price, NN** and AF Mensinger (1999) Predator-prey interactions of juvenile toadfish, *Opsanus tau*. *Biological Bulletin* 197: 246-247

§authors contributed equally to this work

MANUSCRIPTS IN PREPARATION:

- Price NN**, Barrott K, Harris J, Martz T, McDole T, Rohwer FL, Sandin SA, Takeshita Y, Vermeij MA, Williams G, & Smith JE. Biogeochemical feedbacks from seaweeds on coral reefs: spatially complex diel cycling in carbonate chemistry. In prep for submission to *Global Change Biology*
- Price NN** and Smith JE. Naturally varying seawater pH enhances acclimatization to ocean acidification in *Halimeda opuntia*. In prep for submission to *PNAS*
- Kram SL, **Price NN**, Donham E, Gleason M, Hamilton S, Johnson MD, Kelley E, & Smith JE. Response of calcified and non-calcified southern California seaweeds to increased CO₂ and temperature. In prep for submission to *Journal of Phycology*
- Price NN**, Richards C, Young C, Gove JM, Johnson MD, Rodriguez D, Smith JE, Vargus-Angel B, Vroom P, & Brainard RE. Biogeographical patterns of net calcification and coral recruitment relate to nearshore seawater carbonate chemistry on tropical reefs. In prep for submission to *Coral Reefs*

Price NN and Smith JE. A meta-analysis of the ecological role of crustose coralline algae for recruitment of invertebrate larvae. In prep for submission to *Ecology*

Price NN, Buenau K, Nisbet RJ, and Schmitt RJ. A simple model for coral succession and population resilience in response to settlement cues. In prep for submission to *Oecologia*.

GRANTS/AWARDS IN SUPPORT OF RESEARCH:

2014	NSF OCE Research Initiation Grants (PI) <i>Canary on the coral reef: ecophysiology of tropical crustose coralline algae across latitudinal gradients</i>	\$99,000
2013	NSF Ocean Acidification Award (author and named project scientist) <i>Quantifying the potential for biogeochemical feedbacks to create 'refugia' from ocean acidification on tropical coral reefs</i>	\$950,000
2012	Gordon and Betty Moore Foundation Grant (co-author) <i>Understanding coral reef resilience in the face of human impacts</i>	\$1,500,000
2011	California Sea Grant (co-author) <i>Response of calcified and fleshy macroalgae to warming and ocean acidification: from single species to community interactions</i>	\$150,000
2010	Gordon and Betty Moore Foundation Grant (co-author and named postdoc) <i>Observations and modeling of carbon system dynamics at Palmyra Atoll: In support of the development of management strategies for ocean acidification impacts in the tropics</i>	\$850,000
2009	WWF Foundation Research Grant <i>Impact of ocean acidification on the ability for invertebrate larvae to detect settlement cues</i>	\$50,000
2009-12	Ellen Browning Scripps Foundation <i>Ocean acidification research instrumentation</i>	\$30,000
2009	NSF Biological Oceanography Award (co-author and named postdoc) <i>The ecophysiological basis of the response of coral larvae and early life history stages to global climate change</i>	\$550,000
2008	Teaching Assistant Instructional Improvement Grant, UCSB	\$1,500
2007	Worster Award for field research and undergraduate mentorship	\$6,000
2007	Graduate Dissertation Award, UCSB	\$5,000
2004	Graduate Grant for Coral Reef Research. International Society for Reef Studies and the Ocean Conservancy.	\$10,000
2003	Polynesian Education and Research Laboratories Award. University of California, Berkeley. Moorea, French Polynesia.	\$1,050

FELLOWSHIPS/SCHOLARSHIPS/HONORS:

2012	Top Five Explorations Now at Scripps Institution of Oceanography
2008-2010	Scripps Institutional Postdoctoral Scholarship (\$45K/year)
2007	UCSB Affiliates/Nancy Brown Environmental Graduate Dissertation Fellowship (\$3K)
2006	UCSB Graduate Student Symposium Best Talk
2003, 2004	NSF Predoctoral Fellowship Honorable Mention
2003	Fee Fellowship Ecology, Evolution and Marine Biology, UCSB (\$800)
2002	Block Grant. University of California, Santa Barbara (\$5K)
2002	Regents Fellowship University of California, Santa Barbara (\$10K)

1998 Sibyl Award for Excellence in Zoology, Connecticut College
1996 Lawrence Scholarship Connecticut College (\$15K)

TEACHING EXPERIENCE:

2010-2013 **Guest Lecturer**
Advanced Statistical Techniques (Marine Biology Research Division, SIO)

2011-2012 **Guest Lecturer & Lab course development**
Climate Change (Center for Marine Biodiversity and Conservation Summer Course, SIO)

2010-2012 **Guest Lecturer**
Biometry (Biological Sciences, UCSD)

2011 **Guest Lecturer & Lab course development**
Physiology (Marine Biology Research Division, SIO)

2010-2011 **Guest Lecturer**
Introduction to Earth and Marine Sciences (Biological Sciences, UCSD)

2003-2009 **Graduate Teaching Assistant, Guest Lecturer, & Course Improvement Grant**
Applied Marine Ecology (Ecology, Evolution, & Marine Biology, UCSB)

2003-2007 **Senior Graduate Teaching Assistant**
Methods of Aquatic Community Ecology (Ecology, Evolution, & Marine Biology, UCSB)

2005 **Graduate Teaching Assistant**
Mariculture for the 21st Century: Research Frontiers (Ecology, Evolution, & Marine Biology, UCSB)

2005 **Graduate Teaching Assistant**
Introductory Biology Laboratory III (Ecology, Evolution, & Marine Biology, UCSB)

HOSTED WORKSHOPS:

Ocean Acidification and Pacific Coral Reefs: Understanding potential impacts towards development of local solutions, hosted by UC San Diego and the Scripps Institution of Oceanography, Stanford University, and the Reefs Tomorrow Initiative, Honolulu, HI. 2014

UC Ocean Acidification Multicampus Research Programs & Initiatives, hosted by UC San Diego and the Scripps Institution of Oceanography, CA. 2014

INVITED WORKSHOPS:

Developing a Community Vision of Cyberinfrastructure Needs for Coral Reef Systems Science, NCEAS, University of California Santa Barbara 2013.

Ocean Carbon and Biogeochemistry Ocean Acidification Principal Investigators Workshop, Woods Hole Oceanographic Institute and Marine Biological Laboratory, MA, 2011 & Washington DC 2013.

Center for Biodiversity and Conservation Resilience in Island Systems Symposium, American Museum of Natural History, NY, NY. 2013

Coral Recruitment in the Indo-Pacific and Caribbean and Ocean Acidification Workshop, Okinawa Institute of Science and Technology (OIST), Japan. 2013

UC Ocean Acidification Multicampus Research Programs & Initiatives, hosted by UC Davis and the Bodega Marine Lab, CA. 2012

Ocean Carbon and Biogeochemistry Community/Ecosystem Response in Benthic Systems to Ocean Acidification: Data Generation and Modelling, Monterey Bay, CA. 2012

Coral Reef Ocean Acidification Monitoring Portfolio Workshop, hosted by the Coral Reef Conservation Program of NOAA, Ft. Lauderdale, FL. 2012

UC Ocean Acidification Graduate Student/Postdoctoral Working Group, UCSB, Santa Barbara, CA. 2011

Ocean Carbon and Biogeochemistry Short Course on Ocean Acidification Research, Woods Hole Oceanographic Institute and Marine Biological Laboratory, MA. 2009.

Ocean Carbon and Biogeochemistry Scoping Workshop on Ocean Acidification Research, Scripps Institution of Oceanography, La Jolla, CA. 2007.

Moorea Coral Reef LTER Working Group on Coupling of Benthic Ecology and Physical Oceanography, University of California, Santa Barbara, CA 2005.

Moorea Coral Reef LTER Working Group on Dynamic Energy Budgets and Coral Physiology, University of California, Santa Barbara, CA 2005.

INVITED SEMINARS:

Price NN. Tropical benthic seaweeds: creating and responding to natural variation in seawater pH. Joint Institute for Marine and Atmospheric Research & NOAA PIFSC Coral Reef Ecosystem Division annual symposium, Honolulu, HI 2013.

Price NN. Reef management practices for ocean acidification: local solutions to global problems. Ecology Seminar Series, Marine Biology Research Division, SIO, La Jolla, CA. 2013

Price NN. Ecological causes and consequences of coastal variability in carbonate chemistry. Oceans Health Seminar Series, Bigelow Laboratory of Ocean Sciences, Booth Bay, ME. 2013

Price NN. Exploring coral reef threats from changes in ocean chemistry. Center for Marine Biodiversity and Conservation Brown Bag Lunch, SIO, La Jolla, CA. 2013

Price NN, Smith JE, Sandin SA, Rohwer R, and A. Andersson. Calcification Monitoring. UC Ocean Acidification Multicampus Research Programs & Initiatives, Bodega Marine Lab, CA. 2012

Price NN, Smith JE, Martz TR, Brainard R, Cohen A, Dunbar R, Sandin SA, Young C, Richards C, Timmers M, Gove J, Johnson J, Teneva L, Mucciarone D, Koweek D, and A Archambault . Capability for ocean acidification research & monitoring in the remote Pacific Islands and northwest Hawaiian islands. NOAA Coral Reef Ocean Acidification Monitoring Portfolio Workshop, Ft. Lauderdale, FL. 2012.

Price NN and JE Smith. Causes and consequences of variable carbonate chemistry on a reef. Ecology Seminar Series, Moss Landing Marine Lab, CA. 2011.

Price NN, Williams GJ, Harris J, and JE Smith. Carbonation of Coral Reefs: What ‘fizzy’ water means for a fragile ecosystem. Coral Club (SIO & SDSU), San Diego, CA. 2011.

Price NN, Smith JE, Martz TR, Brainard RE, and A Haas. Causes and consequences of variable carbonate chemistry on a reef. UC Ocean Acidification Graduate Student/Postdoctoral Working Group, Santa Barbara CA. 2011.

Price NN, Brainard R, and JE Smith. Ocean Acidification in the Pacific Remote Island Areas: Establishing baselines and identifying drivers. Coral Reef Ecosystem Division Special Seminar, NOAA, Honolulu, HI. 2010.

- Price NN. Calcified Algae and Ocean Acidification. Revelle Prize Luncheon for Prince Albert II of Monaco, SIO, La Jolla, CA. 2010.
- Price NN. Coral Reef Ecosystems: Human Impacts, Pristine Reefs & Conservation Strategies. Indonesian Delegation for Conservation, SIO, La Jolla, CA. 2009.
- Price NN. Ocean Acidification on Coral Reefs. MarFund Foundation, Conservation of Marine Resources in Central America Fundraiser, Laguna Beach, CA. 2009.
- Price NN. Structuring processes for calcified benthic communities: Habitat selection, facilitation, and competition on a coral reef. Ecology Seminar Series, SIO, La Jolla, CA. 2009.
- Price NN. Do coralline algae influence coral recruitment? National Museum of Marine Biology and Aquarium (NMMBA), Pingtung, Taiwan. 2007.
- Price NN, Arkema K and A Rassweiler. Field and lab studies of creosote toxicity: phototoxicity. Coastal Toxicology Retreat, Bodega Marine Laboratory, UC Davis, Bodega Bay, CA. 2002.
- Price, NN. Development of reproductive structures on the sporophyte of a shield fern, *Dryopteris parallelogramma*, Connecticut College Biology Seminar Series, New London, CT. 2000.

CONFERENCE PRESENTATIONS:

- Price NN, Muko S, Legendre L, Edmunds PJ, Steneck R, et al. Reefs on the move: recruitment of coral declines worldwide and expands to higher latitudes. Asia Pacific Coral Reef Symposium, Kenting, Taiwan 2014.
- Price NN, Williams G, Ushijima B, Gove J, Aeby G, et al. Ocean warming and acidification have complex interactive effects on the dynamics of a marine fungal disease. Asia Pacific Coral Reef Symposium, Kenting, Taiwan 2014.
- Price NN, Martz T, and JE Smith. Do calcified algae acclimate to diel fluctuations in seawater pH on coral reefs? Ocean Sciences Meeting, Honolulu, HI 2014.
- Price NN, Martz T, and JE Smith. Do calcified algae acclimate to diel fluctuations in seawater pH on coral reefs? Western Society of Naturalists Annual Meeting, Oxnard, CA, 2013.
- Price NN, Rohwer FL, Sandin SS, Andersson A, Martz T, Takeshita Y, and JE Smith. Benthic composition and biogeochemical cycling on coral reefs: implications for ocean acidification. Coastal and Estuarine Research Federation Annual Meeting, San Diego, CA 2013.
- Price NN, Rohwer FL, Sandin SS, Andersson A, and JE Smith. Benthic metabolic feedbacks to carbonate chemistry on coral reefs: implications for ocean acidification. American Geophysical Union Annual Fall Meeting, San Fransisco, CA, 2012.
- Price NN, Rohwer FL, Sandin SS, Andersson A, and JE Smith. Benthic metabolic feedbacks to carbonate chemistry on coral reefs: implications for ocean acidification. Western Society of Naturalists Annual Meeting, Monterey, CA, 2012.
- Price NN, Martz TR, Brainard RE, Rohwer F, Sandin SA, and JE Smith. Causes and consequences of varying carbonate chemistry over reefs. 12th International Coral Reef Symposium, Cairns, Queensland, Australia. July, 2012.
- Price NN, Smith JE, and TR Martz. The effects of elevated pCO₂ on tropical calcified algae. AGU Ocean Sciences Meeting, Portland, OR. February, 2010.

- Price NN. Do coralline algae influence coral recruitment on a reef? 11th International Coral Reef Symposium, Ft. Lauderdale, FL. July, 2008.
- Price NN. The importance of habitat selection for coral settlement and fitness. Taiwan-America Cooperative Coral Research Workshop, National Museum of Marine Biology and Aquarium (NMMBA), Pingtung, Taiwan. February, 2008.
- Price NN. The incredibly slow race for space: competitive reversals among coralline algae. Western Society of Naturalists Annual Meeting. November, 2007.
- Price NN and Tung-Yung Fan. Settlement rates and substrate preference for *P. damicornis* and *S. pistillata*. Proceedings of Coral Lab, National Museum of Marine Biology and Aquarium (NMMBA), Pingtung, Taiwan and Moorea Coral Reef Long Term Ecological Research (MCR-LTER) Joint Meeting. March, 2007.
- Price NN. Do Trapezid crabs influence early Pocillopora population dynamics? Second Annual Moorea Coral Reef Long Term Ecological Research All Scientist Symposium, UC Santa Barbara 2007.
- Price NN. Do competitive trade-offs among coralline algae influence post-settlement survivorship of Pocilloporid spat? First Annual Moorea Coral Reef Long Term Ecological Research All Scientist Symposium, UC Santa Barbara. 2006.
- Price NN. Do coralline algae influence coral recruitment? Second Annual Ecology, Evolution, and Marine Biology Graduate Student Symposium, UC Santa Barbara. 2006.
- Price NN. Substrate selection and post-settlement survivorship in Pocilloporid corals. First Annual Ecology, Evolution, and Marine Biology Graduate Student Symposium, UC Santa Barbara. 2005.
- Price NN. Substrate selection and post-settlement survivorship in Pocilloporid corals may be pre-determined by cue availability. Western Society of Naturalists Annual Meeting. 2005.
- Price, NN and AF Mensinger. Predator-prey interactions of juvenile toadfish, *Opsanus tau*. Society of Integrative and Comparative Biology, Atlanta, GA. 2000.
- Price, NN and A. F. Mensinger. Predator-prey interactions of juvenile toadfish, *Opsanus tau*. MBL General Scientific Meetings, Woods Hole, MA. 1999.

COLLABORATORS (AND INSTITUTIONS) WITHIN THE PAST 48 MONTHS

S. Sandin (Scripps), T. Martz (Scripps), A. Dickson (Scripps), G. Williams (Scripps), A. Haas (Scripps), W. & L. Gerwick (Scripps), M. Tresguerres (Scripps), A. Andersson (Scripps), R. Brainard (NOAA CRED), D. Gledhill (NOAA CRCP), G. Hofmann (UCSB), R. Dunbar (Stanford), G. Abey (UH), H. Stewart (West Vancouver Lab), R. Schmitt (UCSB), S. Holbrook (UCSB), A. Brooks (UCSB), P. Edmunds (CSUN), R. Carpenter (CSUN), F. Rohwer (SDSU), S. Hamilton (MLML), A. Cohen (WHOI), L. Robbins (USGS), T. Work (USGS)

SERVICE:

- 2014 Guest speaker at Café Scientifique in Boothbay, ME *40 yrs of coral reefs: fragile or resilient ecosystems?*
- 2013 Guest speaker at Women and Minorities in Science luncheon to discuss STEM career paths.
- 2013 Ocean Discovery Institute collaboration to develop K-12 educational curricula on predicted impacts of climate change on marine ecosystems that will reach approximately 35 underprivileged middle and high school students in San Diego, CA

- 2013 Participant in *Understanding biological and cultural resilience in island systems: informing policy and sharing lessons for management* workshop and convener of special session on managing reefs for ocean acidification, American Museum of Natural History, NY
- 2012 Session Chair Community Ecology, Western Society of Naturalists Annual Meeting
- 2012 Student Paper Judge, Western Society of Naturalists Annual Meeting
- 2012-now *Annual Ocean's Benefit Gala* volunteer to educate guests about the sustainability of fisheries at a seafood tasting event, SeaWorld, San Diego, CA
- 2012 Host and organizer of first SIO/SDSU joint “Coral Reef Olympic Trials”, a preparatory workshop for graduate students and postdocs attending the International Coral Reef Symposium
- 2011-now Experimental Design & Statistical Analysis weekly workshops for SIO graduate students
- 2011 Raconteur for ‘Ecological processes and ocean acidification’ break-out group at the OCB Ocean Acidification Principal Investigators Workshop
- 2009-now Initiator and Director of the Scripps Water Acidity Monitoring Project, a student training program for measuring water quality and ocean acidification on Scripps Pier, funded by the Ellen Browning Scripps Foundation
- 2008-now Program manager for the Calcification Accretion Unit (CAU) collaborative project between the Scripps Institution of Oceanography and the Coral Reef Ecosystem Division of NOAA
- 2008-now Palmyra Atoll Research Consortium postdoctoral representative
- 2008-now Reviewer for *Ecology & Evolution*, *Marine Ecology Progress Series*, *PLOS ONE*, *Invertebrate Biology*, *Coral Reefs*, and the *Journal of Phycology*.
- 2012 Contributed to Ocean Carbon and Biogeochemistry *Frequently Asked Questions about Ocean Acidification* document for public awareness
- 2011 Reviewer for AAUS Graduate Student Scholarship applications
- 2010 Reviewer for Natural Environment Research Council grant proposals
- 2007 Graduate Student Representative for the Moorea Coral Reef Long Term Ecological Monitoring Program
- 2003-2006 UCSB Shoreline Preservation Fund (SPF) Board Member and Chair

MEDIA:

- 2013 COMPASS Science Communications Training, Washington DC
- 2013 *Coral Stakeout*, Environmental Monitor quarterly magazine
- 2013 *Exploring Coral Reef Threats*, Earth 8, CBS broadcast TV, KFMB San Diego, CA
- 2013 *OceanPH*, SoCal Connected, public TV, KCET Burbank, CA
- 2013 *Scripps researchers explore wonders of coral reefs*, San Diego Union Tribune
- 2012 *Researchers pitch ocean floor tents to examine coral's role in an acidifying ocean*, Environmental Monitor
- 2012 *Exploring Coral Reef Threats from Changing Ocean Chemistry*, Scripps News Press Release
- 2011 *Comprehensive Study Makes Key Findings of Ocean pH Variations*, Scripps News Press Release, embargoed by PLoS One
-

MENTORING:

Graduate student advising

- 2013 – present Diana Rodriguez, SJSU (Masters Program Center for Marine Sciences, La Paz, Mexico)
- 2012 – present Emily Donham, SJSU (Masters Program Moss Landing Marine Lab)
- 2012 – present Molly Gleason, UCSD (Master of Science in Ecology, Behavior & Evolution)
- 2011 – present Amanda Carter, UCSD (Master of Science in Ecology, Behavior & Evolution)
- 2011 – present Susan Kram, UCSD (Master of Science in Ecology, Behavior & Evolution)
- 2011 – present Maggie Johnson, SIO (Ph.D., Marine Biology Research Division)
- 2010 – present Jill Harris, SIO (Ph.D., Marine Biology Research Division)
- 2008 – 2010 Javier Cuetos-Bueno, UCSD (Master of Science in Ecology, Behavior & Evolution)

Undergraduate student advising

- 2013 – 2014 Jennifer Le, UCSD (Biological Sciences)
 - 2012 – 2013 Jennifer Bone, UCSD (Biological Sciences)
 - 2011 – 2012 Carolyn Kim, UCSD (Biological Sciences)
 - 2009 – 2011 Jacquelyn Tran, UCSD (Biological Sciences)
 - 2008 – 2009 Chester Huang, UCSD (Biological Sciences)
 - 2007 – 2008 Samantha Davis, UCSB (Ecology, Evolution, and Marine Biology)
 - 2006 – 2007 Sabrina Beyer, UCSB (Ecology, Evolution, and Marine Biology)
 - 2006 – 2007 Stacey Fejtek, UCSB (Ecology, Evolution, and Marine Biology)
 - 2005 – 2007 Lindsay Carr, UCSB (Ecology, Evolution, and Marine Biology)
-

REFEREES

Ph.D. Committee:

Dr. Russell Schmitt (**primary advisor**), Phone: (805) 893-2051, Email: schmitt@lifesci.ucsb.edu
Professor and Ph.D. Advisor, Ecology, Evolution & Marine Biology
University of California, Santa Barbara, CA 93106-9620

Dr. Sally Holbrook, Phone: (805) 893-3956, Email: holbrook@lifesci.ucsb.edu
Professor and Ph.D. Committee Member, Ecology, Evolution & Marine Biology
University of California, Santa Barbara, CA 93106-9620

Dr. Roger Nisbet, Phone: (805) 893-7115, Email: nisbet@lifesci.ucsb.edu
Professor and Ph.D. Committee Member, Ecology, Evolution & Marine Biology
University of California, Santa Barbara, CA 93106-9620

Dr. Peter Edmunds, Phone: (818) 677-2502, Email: peter.edmunds@csun.edu
Professor and Ph.D. Committee Member, Department of Biology
California State University, 18111 Nordhoff Street, Northridge, CA 91330-8303

Postdoctoral Colleagues

Dr. Jennifer Smith (**primary advisor**), Phone: (858) 246-0803, Email: smithj@ucsd.edu
Assistant Professor and Postdoc Advisor, Marine Biology Research Division
Scripps Institution of Oceanography, La Jolla CA, 92093-0202

Dr. Robert Dunbar, Phone: (650) 725-6830, Email: dunbar@stanford.edu
Professor Environmental Earth Systems Science
Stanford University, 473 Via Ortega, Rm 140, Stanford, CA 94305

Dr. Stuart Sandin, Phone: (858) 534-4150, Email: ssandin@ucsd.edu
Assistant Professor, Marine Biology Research Division
Scripps Institution of Oceanography, La Jolla CA, 92093-0202

Dr. Gretchen Hofmann, Phone: (805) 893-6175, Email: gretchen.hofmann@lifesci.ucsb.edu
Professor, Ecology, Evolution & Marine Biology
University of California, Santa Barbara, CA 93106-9620

Dr. Andrew Dickson, Phone: (858) 822-2990, Email: adickson@ucsd.edu
Professor Marine Physical Laboratory
Scripps Institution of Oceanography, La Jolla CA, 92093-0244

Dr. Anne Cohen, Phone: Email, acohen@whoi.edu
Tenured Associate Scientist, Geology and Geophysics
Woods Hole Oceanographic Institution, MA, 02543-1050

Dr. Todd Martz, Phone: (858) 534-7466, Email: trmartz@ucsd.edu
Assistant Professor Geosciences Research Division
Scripps Institution of Oceanography, La Jolla CA, 92093-0244

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