

Nichole Noel Price, Ph.D.

Senior Research Scientist
Director of Center for Seafood Solutions
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:

Director	<i>Center for Venture Research on Seafood Solutions, BLOS 2015-present. A catalyst for informed problem-solving, policy, and public awareness focused on building ecological and social capital in the marine environment.</i>
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</i> , SIO, SDSU, & ANSTO 2010. Species-specific and coral reef community assemblage metabolic and calcification rates, Chief Scientist: Stuart Sandin.
Researcher	<i>NOAA Coral Reef Ecosystem Division, Pacific Remote Island Areas, Cruise Leg III</i> , 2010. Rapid ecological assessment of the benthic community and carbonate chemistry for long-term monitoring on coral reefs, Chief Scientist: Jamison Gove.
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</i> , 2007 & 2008. Coral larval behavior, ocean acidification, and climate change.
Graduate Assistant	<i>Marine Science Institute</i> , UCSB 2006. Phylogenetics and population dynamics of temperate seagrasses.
Field Biologist	<i>Centre de Recherches Insulaires et Observatoire de l'Environnement in Moorea, French Polynesia</i> 2006. Rapid ecological assessment of the benthic community for long-term monitoring on coral reefs.
Graduate Assistant	<i>Mo'orea Coral Reef Long Term Ecological Research Program (LTER)</i> , UCSB 2004-2008. Community ecology, population dynamics, and coral-algal interactions, and larval fish and coral recruitment.
Teaching Assistant	UCSB (Ecology, Evolution, and Marine Biology Dept.) 2002-2008
Research Technician	<i>Brigham and Women's Hospital</i> , Harvard 2000-2002. Gene expression and phenotypic response to multiple sclerosis and type II diabetes in mice.
Research Technician	<i>Gulf of Maine Research Cruise</i> , HBOI 1999 & 2000. Visual physiology and teleost feeding behavior for mid-water fishes, Chief Scientist: Eddie Widder
REU Student	<i>Marine Biological Laboratory</i> , 1999 & 2000. Juvenile toadfish predation behavior.
Research Technician	<i>School for International Training</i> , University of Dar es Salaam, Tanzania, 1998. Applied ecology: reforestation and conservation of mangroves.

PUBLICATIONS (H-index 27, citations 2069):

In Submission, Review, or Revision

Aurora Ricart[†], Honisch B, Fachon E[#], Hunt C*, Salisbury J, Arnold S, and **Price NN**². Optimizing marine macrophyte physiological buffering capacity under light and flow regimes to mitigate acidification in coastal areas: Insights from climate change mesocosms. Revised and in review at *Limnology and Oceanography*

J Wu*, SW Rogers, R Schaumann, C Higgins, **NN Price**. Bioextractive aquaculture as an alternative nutrient management strategy for water resource recovery facilities. In review at *Water Research*

Accepted, in Press, or Published

*Donham, E.M., Hamilton, S.L., **Price, N.N.**, Kram, S., Kelly, E., Johnson, M.D., Neu, A.T. and Smith, J., 2021. Experimental assessment of the impacts of ocean acidification and urchin grazing on benthic kelp forest assemblages. *Journal of Experimental Marine Biology and Ecology*, 540, p.151548.

Vijn, S., Compart, D.P., Dutta, N., Foukis, A., Hess, M., Hristov, A.N., Kalscheur, K.F., Kebreab, E., Nuzhdin, S.V., **Price, N.N.** and Sun, Y., 2020. Key Considerations for the Use of Seaweed to Reduce Enteric Methane Emissions From Cattle. *Frontiers in Veterinary Science*, 7, p.1135.

- Neal B[†], Honisch B, Warrender T, Work T, Williams G, **Price NN**². Tropical reef fish herbivory controls acute outbreaks of a marine fungal pathogen. Conditionally accepted with minor revisions, *Oecologia*.
- Calhoun, S.K., Haas, A.F., Takeshita, Y., Johnson, M.D., Fox, M.D., Kelly, E.L., Mueller, B., Vermeij, M.J., Kelly, L.W., Nelson, C.E. and **Price, N.N.**, 2020. Evidence for a biological source of widespread, reproducible nighttime oxygen spikes in tropical reef ecosystems has implications for coral health. bioRxiv.
- Cyronak, T.[†], Takeshita, Y., Courtney, T.A., DeCarlo, E.H., Eyre, B.D., Kline, D.I., Martz, T., Page, H., **Price, N.N.**, Smith, J. and Stoltenberg, L., 2019. Diel temperature and pH variability scale with depth across diverse coral reef habitats. *Limnology and Oceanography Letters*. doi.org/10.1002/lol2.10129
- 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. 2019 *Marine Ecology Progress Series* 621:1-17 FEATURE ARTICLE
- TM Work, GS Aeby, BP Neal[†], **NN Price**, E Conklin, A Pollock (2018) Managing an invasive corallimorph at Palmyra Atoll National Wildlife Refuge, Line Islands, Central Pacific. *Biological Invasions* <https://doi.org/10.1007/s10530-018-1696-1>
- GJ Williams[§], SA Sandin[§], BJ Zgliczynski, JM Gove, MD Fox, JS Rogers, KA Furby, AC Hartmann, ZR Caldwell, **NN Price**, JE Smith. (2018) Biophysical drivers of coral trophic depth zonation *Marine Biology* 165: 60. <https://doi.org/10.1007/s00227-018-3314-2>
- *S.K. Calhoun SK, Haas AF, Takeshita Y, Johnson MD, Fox MD, Kelly ELA, Mueller B, Vermeij MJA, Kelly LW, Nelson CE, **Price NN**, Roach TNF, Rohwer F, Smith JE. (2017) Exploring the occurrence of and explanations for nighttime dissolved oxygen spikes across coral reef environments *PeerJ Preprints*
- Y Takeshita*, EM Briggs, A Carter*, E Donham*, TR Martz, W McGillis, **NN Price**, and JE Smith. (2016) Assessment of net community production and calcification of a coral reef using a boundary layer approach. *Geophysical Research Letters* 121, 5655–5671, doi:10.1002/2016JC011886.
- Enochs IC, Manzello DP, Tribollet A, Valentino L, Kolodziej G, Donham EM*, Mark D. Fitchett, Renee Carlton, and **Nichole N. Price** (2016) Elevated colonization of microborers at a volcanically acidified coral reef. *PLoS ONE* 11(7): e0159818. doi:10.1371/journal.pone.0159818
- Kram SL*, **Price NN**, Donham EM*, Johnson MD*, Kelly ELA, Hamilton SL, Smith JE. Variable responses of temperate calcified and fleshy macroalgae to elevated pCO₂ and warming. *ICES Journal of Marine Science*, themed article set: Broader perspectives on OA, (2016) 73 (3): 693-703
- B Vargas-Angel, CL Richards, PS Vroom, **NN Price**, T Schils, CW Young, J Smith, M Johnson*, RE Brainard. (2015) Baseline assessment of net calcium carbonate accretion rates on U.S. Pacific reefs. *PLoS One* 10 (12), e0142196
- Enochs IC, Manzello DP, Donham E*, Kolodziej G, Okano R, Johnston L, Young C, Iguel J, Edwards C, Fox M, Valentino L, Johnson S, Benavente D, Clark SJ, Burton T, Eynaud Y, **Price NN**². (2015) Shift from coral to macroalgae dominance on a volcanically acidified reef. *Nature Climate Change* 5: 1083-1088
- Y Takeshita*, CA Frieder, TR Martz, JR Ballard, RA Feely, S Kram*, SH Nam, MO Navarro, **NN Price**, and JE Smith. Including high frequency variability in coastal ocean acidification projections. *Biogeosciences* 12, no. 19 (2015): 5853-5870.

- Koweek D, Dunbar RB, Rogers JS, Williams GJ, **Price NN**, Mucciarone D, Teneva L. (2015) Environmental and ecological controls of coral community metabolism on Palmyra Atoll. *Coral Reefs* DOI 10.1007/s00338-014-1217-3.
- SR Alin, RE Brainard, **NN Price**, J Newton, A Cohen, WT Peterson, EH DeCarlo, EH Shadwick, S Noakes, N Bednaršek. (2015) Characterizing the natural system: Toward sustained, integrated coastal ocean acidification observing networks to facilitate resource management and decision support. *Oceanography*, themed article set: Emerging Themes in Ocean Acidification Science Volume 28, No. 2 p. 92
- DK Gledhill, MM White, J Salisbury, H Thomas, I Mlsna, M Liebman, B Mook, J Grear, AC Candelmo, RC Chambers, CJ Gobler, CW Hunt, AL King, **NN Price**¹, S Signorini, E Stancioff, C Stymiest, RA Wahle, JD Waller, ND Rebeck, ZA Wang, TL Capson, JR Morrison, S Cooley, S Doney. (2015) Ocean and coastal acidification off New England and Nova Scotia. *Oceanography*, themed article set: Emerging Themes in Ocean Acidification Science Volume 28, No. 2 p. 182
- 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. (2015) Geographic variation in long-term trajectories of change in coral recruitment: a global-to-local perspective. *Marine and Freshwater Research* <http://dx.doi.org/10.1071/MF14139>
- 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. (2014) 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. (2014) Quantifying patterns of fish herbivory on an uninhabited predator-dominated central Pacific coral reef, Palmyra Atoll (USA). *Marine Ecology Progress Series* 501: 141-155
- 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

¹As newest member of Northeast Coastal Acidification Network (NECAN)

²Trying to denote ‘anchor’ author here, as senior personnel on project

[†]Postdoctoral scholar advised by NN Price

*Graduate student advised by NN Price

#Undergraduate student (REU) advised by NN Price

§authors contributed equally to this work

WHITE PAPERS, BOOK CHAPTERS, TECHNICAL DOCUMENTS:

An Ecosystem Approach to the Culture of Seaweed Richard Langton, Simona Augyte, **Nichole Price**, John Forster, Thomas Noji, Gretchen Grebe, Adam St. Gelais, and Carrie J. Byron. NOAA Technical Memorandum NMFS-F/SPO-195

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** Growth – grazer tolerance tradeoffs and competitive reversals among encrusting coralline algae: implications for coexistence. In prep for submission to *Journal of Phycology*
- Price NN**, Johnson MD*, Takeshita Y*, Robbins L, Martz TR, McGillis W, Smith JE. Naturally varying seawater pH enhances acclimatization to ocean acidification in *Halimeda opuntia*. In prep for submission to *PNAS*
- 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**, Donham E*, Honisch B, Johnson MD*, Smith JE, DeCarlo EH, Brainard R, Oliver T, Andersson A, Edmunds P, Carpenter R. Bulk Mg fractionation of crustose coralline algae relates to high frequency variation in seawater pH. In prep for submission to *Marine Ecology Progress Series*.
- Price NN**[§], Arnold S[§], Honish B, Record N, Salisbury J. Farmed sugar kelp (*Saccharina latissima*) raise seawater aragonite saturation state in Casco Bay, ME. In prep for submission to *Journal of Phycology*.
- Price NN**, Fachon E[#], Donham E*, Ets-Hokin J[#]. Instantaneous inorganic carbon uptake and photosynthetic efficiency of five key New England macrophytes depends on seawater pCO₂. In prep for submission to *Marine Biology*.

Price NN, Donham E*, Doan M, Neckles H, Record N. Eelgrass (*Zostera marina*) raise bulk- and pore-seawater pH in Casco Bay, ME. In prep for submission to *Aquatic Conservation: Marine and Freshwater Ecosystems*.

GRANTS/AWARDS IN SUPPORT OF RESEARCH:

2020	WWF (PI) <i>Benefits of co-cultivating kelp and mussels in a changing ocean CVR</i>	\$99,000
2020	MEIF-SCI (Senior Personnel) <i>Development of Unmanned Aerial Survey Methods for Rockweed Solutions CVR</i>	\$55,000
2020	Andrew Davis Donation (PI) <i>Burpbusters IV CVR</i>	\$1,502,000
2020	DOE MARINER Nutrient Bioextraction (PI) <i>Phytoremediation Potential of Farmed Kelp and Seafood Solutions CVR</i>	\$299,000
2019	Andrew Davis Donation (PI) <i>Burpbusters III</i>	\$2,380,700
2019	NSF EPSCoR Track I (Theme co-Lead) <i>Maine eDNA: Larval Black Box</i>	\$765,000
2019	Broad Reach (PI) <i>Phytoremediation Potential of Farmed Kelp II and Seafood Solutions CVR</i>	\$50,000
2019	Spencer Foundation (PI) <i>Seaweed Husbandry</i>	\$25,000
2019	Casco Bay Estuary Partnership Shell Hash Program (co-PI) <i>Application of Crushed Shells to Mitigate Ocean Acidification in Upwellers CVR</i>	\$25,000
2018	Maine Technology Institute Equipment Grant (co-PI) <i>Acquisition of Equipment to Support Development of the Maine Algal Economy CVR</i>	\$93,600
2018	Spencer Foundation <i>Seed Catalog for Seaweed</i>	\$40,000
2018	Andrew Davis Donation <i>Center for Seafood Solutions</i>	\$300,000
2018	Broad Reach (PI) <i>Phytoremediation Potential of Farmed Kelp and Seafood Solutions CVR</i>	\$50,000
2018	Andrew Davis Donation (PI) <i>Phytoremediation Potential of Farmed Kelp and Seafood Solutions CVR</i>	\$250,000
2018	NOAA Saltonstall Kennedy (PI) <i>Phytoremediation Potential of Farmed Kelp</i>	\$298,000
2017	Department of Marine Resources (PI) <i>Effects of harvest rockweed on CO₂ uptake rates</i>	\$15,000
2017	Maine Technology Institute Seed Grant (PI) <i>Seafood Solutions Center for Venture Research: Sugar Kelp Seed Catalog</i>	\$20,000
2016	Davis Foundation (PI) <i>Seafood Solutions Center for Venture Research: Phytoremediation</i>	\$10,000
2016	A.R. and Marylouise Tandy Foundation (PI) <i>Seafood Solutions Center for Venture Research: Phytoremediation</i>	\$100,000
2016	Louise H. and David S. Ingalls Foundation (PI) <i>Seafood Solutions Center for Venture Research: Phytoremediation</i>	\$100,000
2016	SEANET Mini-Grant (co-PI)	

	<i>Phytoremediation potential of sugar kelp</i>	\$12,500
2016	Maine Nature Conservancy (PI) <i>Restorative aquaculture in Casco Bay</i>	\$59,000
2016	Bigelow Mary Spencer Funds (PI) <i>Seafood Solutions Center for Venture Research: Sugar Kelp Seed Catalog</i>	\$25,000
2016	Sewall Foundation (PI) <i>Seafood Solutions Center for Venture Research: Arsenic Testing</i>	\$125,000
2016	NSF MRI (co-PI) <i>Acquisition of a quadrupole ICP-MS for research and teaching on marine organisms and biogeochemistry</i>	\$219,265
2016	NSF OCE Standard Grant (PI) <i>Epidemiology and spatial ecology of a tropical coralline fungal disease in the face of ocean warming and acidification</i>	\$745,254
2016	Island Institute-Bigelow Laboratory Collaboration (Subcontract) <i>Can farmed kelp locally remediate ocean acidification?</i>	\$20,000
2015	TNC-Bigelow Laboratory Collaboration (PI) <i>Restoration of Eelgrass in Casco Bay: Feasibility Tests in 2015</i>	\$30,840
2015	NSF OCE Research Initiation Grants (PI) – Supplemental REU funding <i>Canary on the coral reef: ecophysiology of tropical crustose coralline algae across latitudinal gradients</i>	\$9,500
2015	Bigelow Laboratory ORCA Pump Priming (PI) <i>Retrofitting Bigelow Seawater Suite for kelp seeded-line aquaculture</i>	\$5,000
2014	USFWS Subcontract (PI) – Seawater Monitoring Pacific Reefs <i>Seawater Monitoring Pacific Reefs</i>	\$20,040
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) - subaward <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:

2014	Promising Young Scientist Award, Japanese Coral Reef Society (\$2K)
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:

2017, 19	Bigelow-Colby Semester Program Mentor
2019	Guest Lecture (Colby) <i>Biology Department Seminar on the fate of coral reefs</i>
2018	Guest Lecture (Colby) <i>Sustainable Agriculture and the Future of Food</i>
2018	Guest Lecture (UNE) <i>Introduction to Environmental Issues</i>
2018	Aquaculture Business Development (Bigelow Laboratory) <i>Biology of Maine Seaweeds</i>
2018	Aquaculture in Shared Waters (Maine Maritime Museum) <i>Biology of Maine Seaweeds</i>
2017, 19	Bigelow-Colby Jan Plan <i>Global Change on Marginal Marine Ecosystems</i> , held on Bermuda and at Bigelow
2015-16	REU Mentor and ROR discussion leader <i>Experimental Design and Statistics</i> (BLOS)
2016	Guest Lecturer <i>Coastal acidification</i> (Bowdoin College)
2015	Guest Lecturer <i>Senior Research Capstone Course</i> (Colby College)
2010-2013	Guest Lecturer <i>Advanced Statistical Techniques</i> (Marine Biology Research Division, SIO)
2011-2012	Guest Lecturer & Lab course development <i>Climate Change</i> (Center for Marine Biodiversity and Conservation Summer Course, SIO)
2010-2012	Guest Lecturer <i>Biometry</i> (Biological Sciences, UCSD)

- 2011 **Guest Lecturer & Lab course development**
Phycology (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 and CONVENINGS:

- OSM 2020 Planning Committee Member, ASLO Early Scientist Rep., San Diego CA Feb 17-22, 2020
- Steering Committee, Maine Aquaculture Workforce Development Series, Bigelow Rep., Belfast ME several meetings summer & fall 2019
- Steering Committee, International Seaweed as Livestock Feed Workshop, Indianapolis IN with WWF, FFAR, and DOE, November 21-22, 2019
- Co-host, Fishermen's Forum Shellfish Listening Session, Rockland ME March 1 2018
- Co-host, Aquaculture Business Development Program, at Bigelow Laboratory with Island Institute, February 1 2018
- Host and Science Advisor, Maine Seaweed Council, at Bigelow Laboratory, February 13 2018
- Host and Science Advisor, Maine Ocean and Coastal Acidification Partnership fall meeting, December 18 2017 at Bigelow Laboratory
- Session Chair, OSM 2018 Advances in Field and Laboratory Approaches to Measuring the Response of Organisms and Species Assemblages to Ocean Change February, 2018
- Session Chair, Maine Water and Sustainability Conference, August ME 2017.
- Sea Greens Panel, a Seafood Solutions CVR Event Seafood Expo of North American, Boston MA. 2017
- Maine Seaweed Council Quarterly Meeting at Bigelow Laboratory for Ocean Sciences, ME. 2016
- Communicating effectively with Policy-Makers and Politicians informational session, hosted Noah Oppenheim, a Sea Grant Knauss Fellow with the office of Congressman Jared Huffman, Bigelow Laboratory for Ocean Sciences, ME. 2016
- Research Solutions for Aquaculture, Bigelow Laboratory for Ocean Sciences, ME. 2015
- 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:

ME Fishermen's Forum Shellfish Focus Day, Mar 6 2020, Rockland ME

ME Aquaculture Research, Development, and Education Forum, Jan 17 2020, Belfast ME

Maine Climate Panel Science and Technical Subcommittee Workshops, Monthly Fall 2019-Spring 2020, Augusta ME

Maine Climate Panel Coastal Marine Working Group Workshops, Bimonthly Winter-Spring 2020, Augusta ME

Palmyra Atoll Coral Reef Planning Workshop, October 2019, San Diego CA

Palmyra Atoll Pelagic Conservation Workshop, October 2019, Honolulu HI

'Institutional Meeting of the Minds' Aquaculture Group, Maine Aquaculture Association, Jan 31, Augusta ME

Coastal Carbon Cycling Working Group, Bates College 2016 and Augusta ME 2017

Panelist for Seaweed information session at the Fisherman's Forum, ME March 2017

Aquaculture Research Institute Annual Research and Development and Education Summit, Macroalgal Culturing Breakout Session 2015

Cross River Ecology Consortium Meetings, Darling Marine Center and Bigelow Laboratory, 2015.

Ocean Carbon and Biogeochemistry Ocean Acidification Principal Investigators Workshop, Woods Hole Oceanographic Institute and Marine Biological Laboratory, MA, 2011, 2015 & Washington DC 2013.

Aquaculture Bootcamp, EPSCoR SeaNET, Darling Marine Center, 2015.

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

- Price NN, P. Countway, H. Leslie, B. MacGreavy, Demonstration of ME eDNA Tools for Aquaculture, Rockland ME Fishermen's Forum Shellfish Focus Day Mar 2020
- Price NN, H. Leslie ME eDNA Tools for Aquaculture, Belfast ME Aquaculture R,D, & E Forum Jan 2020
- Price NN. Accelerating Methane Suppression for Dairy Cows, Wolfe Neck Center December 2019
- Price NN. Hope for coral reefs? Colby College March 2019
- Price NN. Seaweed aquaculture and circular economies in agriculture Colby College November 2018
- Price NN. Can local mitigation strategies buffer coastal acidification? UNE November 2018
- Price NN. Can local mitigation strategies buffer coastal acidification? Bowdoin Seminar Series November 2017
- Price NN. Phytoremediation: can kelp capture enough inorganic carbon to mitigate ocean acidification? UMass Boston Seminar Series April 2017
- Price NN. Sustainable Seafood in Maine. Lecture Series Merry Spring Nature Center April 2017
- Price NN. Is Seafood Secure? Bigelow Café Sci August 2016
- Price NN. Characterizing environmental history with autonomous oceanographic sensors: the importance of climatological context for eco-physiological studies Gordon Research Conference and Seminar July 2016, NH.
- Price NN. Healthy oceans, healthy people: building a more resilient Maine coast. 5 minute genius Maine Science Fair, Bangor ME 2016
- Price NN. Coastal acidification in New England: causes, consequences, and mitigation strategies. Colby Capstone Lecture, Bigelow Laboratory for Ocean Sciences 2016
- Price NN. Can farmed kelp phytoremediate ocean acidification?. Island Institute Fundraising event, Portland ME 2016
- Price NN and Aepli C. What is a CVR and how will it help Bigelow? Quarterly Board Meeting, Bigelow Laboratory for Ocean Sciences 2016
- 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:

- Emmaeve Jordain, Nichole Price, Brittney Honisch, Effects of warming seawater temperatures on the phenology of economically valuable brown macroalgae. OSM, San Diego Feb 2020
- Catherine Wilhelm, N Price, M White, T Houston, R Smith, B Honisch, C Bohlen. Potential Shell Hash Mitigation of Coastal Acidification for Juvenile Oysters Reared in Upwellers. OSM, San Diego Feb 2020
- Nichole Price, S. Arnold, Paul Dobbins, Brittney Honisch, C.W Hunt, M. Melendez, Matthew Moretti, Joseph Salisbury, S. Shellito Kelp Farming as a Potential Strategy for Remediating Ocean Acidification and Improving Shellfish Cultivation OSM, San Diego Feb 2020
- Brittney Honisch, Nichole Price et al. Phytoremediation Northeast Aquaculture Conference and Expo, Boston Jan 2019
- Bri Groves, Nichole Price, Brittney Honisch. Physiological Impacts of Cultivating Mussels on a Kelp Farm: A Solution to Ocean Acidification? ASLO Feb 2019

- Sahana Simonetti, Nichole Price, Brittney Honisch. Complex interactions in changing seas: an emerging relationship between a host and a marine fungal pathogen ASLO Feb 2019
- NN Price, SN Arnold, J Salisbury, P Dobbins, B Honisch, C Hunt, S Shellito, MM Oyola, E Fachon. Spatiotemporal impacts of net primary productivity from macroalgae aquaculture: implications for remediating coastal acidification. Coastal and Estuarine Research Federation 24th Biennial Conference, Portland RI November 2017
- Neal BP, Williams GJ, Work TM, Honisch B, Warrenderer T, Price NN. Tropical reef fish herbivory controls acute outbreaks of a marine fungal pathogen. Benthic Ecology Meeting, Corpus Christi March 2018.
- Neal B, Work T, Williams G, Honish B, Price NN. Coralline fungal disease (CFD) abundance on Palmyra Atoll during the 2015-2016 El Nino event. ASLO Aquatic Sciences Meeting Honolulu HI Feb 2017.
- Price NN, Honisch B, Arnold SN, Record N, Salisbury J, Dobbins P. Can growing sugar kelp locally remediate ocean acidification? Maine Water and Sustainability Conference, August ME March 2017.
- Price NN, Williams G, Ushijim B, Aeby G, Gove J, et al. Ocean warming and acidification have complex interactive effects on the dynamics of a marine fungal disease. International Coral Reef Symposium Honolulu HI June 2016.
- Price NN, Donham E*, Fachon E*, Honisch B, Arnold SN, Record N, White M, Doan M, Neckles H. Primary productivity of key New England macrophytes raises seawater pH in experimental and natural settings: implications for ocean acidification. New England Algal Society Annual Meeting, MA April 2016
- Price NN, Donham E*, Fachon E*, Honisch B, Arnold SN, Record N, White M, Doan M, Neckles H. Primary productivity of key New England macrophytes raises seawater pH in experimental and natural settings: implications for coastal acidification. Benthic Ecology Meeting, Portland ME April 2016.
- Price NN, Lomas M, Archer S, Pinkham T, Poulton N. Sharing Culture: What can Bigelow Laboratory for Ocean Sciences do for you? Northeast Aquaculture Conference & Exposition, Research and Development Forum, Portland, ME 2015.
- 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.

SERVICE:

- 2019-22 ME Climate Panel Science and Technical Subcommittee member, lead of Marine Ecosystem response section
- 2019-22 Ocean Sciences Meeting 2020 Planning Committee member, ASLO Early Career Scientist rep
- 2019- Seaweed as Livestock Feed Steering Committee member
- 2019-20 ME Aquaculture Workforce Development Steering Committee member

- 2019- ME Seaweed Fisheries Advisory Council science advisor
- 2018- Maine Seaweed Council science advisor
- 2016- Northeastern Coastal Stations Alliance Participant
- 2016- Maine Ocean and Coastal Acidification Partner and science advisor
- 2016- Northeastern Acidification Network (NECAN) science advisor
- 2017-19 Casco Bay Nutrient Council science advisor
- 2017 Session co-Chair Ocean Acidification, Maine Water Quality Conference
- 2016 Testimony to Maine State Legislature (Speaker of the house and Marine Resources Committee)
- 2016 Session co-Chair Measuring and scaling impacts across multiples scales, International Coral Reef Symposium
- 2016 Session Moderator Ecophysiology, Benthic Ecology Meeting
- 2016 Bowdoin College Women in Science Panel
- 2015 NSF Biological Oceanography Panel
- 2015, 16 Algal Cluster Initiative Participant from Bigelow Laboratory (using match funds)
- 2015 AAUS Representative from Bigelow Laboratory
- 2014, 15, 16 Guest speaker at Maine Ocean Acidification Commission hearings.
- 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 *Science Reports, Ecology & Evolution, Marine Ecology Progress Series, PLOS ONE, Invertebrate Biology, Coral Reefs, Proceedings of the Royal Society, B, Marine and Freshwater Research*, 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:

- 2019 [Would feeding cows seaweed help the planet? Scientists in Maine hope to find out.](#) December 30, 2019 Washington Post
- 2019 [Mooove over hay, seaweed is the new feed](#) November 26, 2019 Press Herald
- 2019 [Feeding seaweed to cows could reduce methane burps](#) November 1, 2019 CBC Listen
- 2019 [US scientists research effect of seaweed on cattle greenhouse gas emissions](#) October 31, 2019 eFeed Link
- 2019 [Maine cow's seaweed diet research could help climate change](#) October 30, 2019 News Center Maine
- 2019 [Maine scientists are looking at using seaweed to get cows to burp less](#) October 28, 2019 Bangor Daily News
- 2019 [Maine scientists to study seaweed's effect on cow burps](#) October 28, 2019 WGME
- 2019 [Green Plate Special: A new diet for cows to cut methane emissions?](#) October 20, 2019 Press Herald
- 2019 [Scientists Look To Seaweed To Help Cattle Lower Methane Emissions](#) October 16, 2019 Maine Public
- 2019 [Climate change is driving coral reefs to cooler waters](#) September 24, 2019 The Weather Network
- 2019 [Tropical Corals Are Migrating Away from Warming Waters](#) August 23, 2019 Eos
- 2019 [As Oceans Warm, Tropical Corals Seek Refuge in Cooler Waters](#) August 22, 2019 Yale Environment 360
- 2019 [Corals spreading to subtropical waters](#) July 22, 2019 EarthSky
- 2019 [Maine Scientist: Climate Change Is Driving Corals To Cooler Waters. Will They Survive?](#) July 11, 2019 Maine Public
- 2019 [Coral reefs are vanishing from tropical to more temperate waters. Climate change is to blame, Maine researcher finds.](#) July 11, 2019 Bangor Daily News
- 2019 Bigelow Lab's 'time machine' aims to find out how shellfish will fare in the future. Portland Press. <https://www.pressherald.com/2018/07/29/bigelow-labs-time-machine-aims-to-find-out-how-shellfish-will-fare-in-the-future/>

- 2018 Could seaweed save Maine's shellfish?
<http://www.newscentermaine.com/mobile/article/news/local/could-seaweed-save-maines-shellfish/97-520664038>
- 2017 Bangor Daily News: Maine's coastal waters are unhealthy from carbon, acidity. Are seaweed gardens the answer?
- 2016 Yale E360 http://e360.yale.edu/feature/kelp_seagrass_slow_ocean_acidification_netarts/3013/
- 2016 Associated Press <http://bigstory.ap.org/article/01d8960be57a4c539daa7ebe4761881c/studies-testing-kelp-local-fix-acidifying-seawater>
- 2016 MPBN Maine Calling Guest panelist
- 2016 Bangor Daily News response to editorial letter
- 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

- 2018 – 2020 Melissa Melendez Oyola (PhD, UNH)
- 2018 – 2020 Jingjing Wu (PhD, Clarkson University)
- 2012 – 2016 Emily Donham, SJSU (Masters Program Moss Landing Marine Lab)
- 2013 – 2015 Diana Rodriguez, SJSU (Masters Program Center for Marine Sciences, La Paz, Mexico)
- 2012 – 2015 Molly Gleason, UCSD (Master of Science in Ecology, Behavior & Evolution)
- 2011 – 2015 Amanda Carter, UCSD (Master of Science in Ecology, Behavior & Evolution)
- 2011 – 2015 Susan Kram, UCSD (Master of Science in Ecology, Behavior & Evolution)
- 2011 – 2015 Maggie Johnson, SIO (Ph.D., Marine Biology Research Division)
- 2010 – 2015 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

- 2019-20 Emmaeve Jourdain, REU (UMaine Orono)
- 2019 Catherine (Rin) Wilhelm REU (William and Mary)
- 2019 Ciaran McEnroe, Bigelow-Colby Semester
- 2018 Mike Fu, summer intern (Colby College)
- 2018 Bri Groves, REU (Mt. Holyoke)
- 2018 Sahana Simonetti, REU (Northeastern)
- 2017 Bigelow REU Intern (Emily Geske)
- 2016 Bigelow Colby Semester Student (Emily Geske)
- 2016 Colby Capstone Students (Tyler Lewtan, Albertha Ladina, Cat Padgett)

2015 Colby Capstone Students (Gaby Carpen, Emily Walker, Stephen O’Grady, Elizabeth Sull, Emily Reif)
2015 Evangeline Fachon, REU (Northeastern University)
2015 Jeremiah Ets-Hokin, REU (Humbolt University)
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)

Highschool student advising

2019-20 Shea Sewall (Maine School of Science and Math)
2018-19 Lincoln Academy Science Fair Project (Ella Villeneuve)
2018 Boothbay Harbor High School Volunteer (Nathan Graves)

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
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Dr. Roger Nisbet, Phone: (805) 893-7115, Email: nisbet@lifesci.ucsb.edu
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University of California, Santa Barbara, CA 93106-9620

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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

Dr. Russell Brainard, Phone: (808) 944-2115, Email: Rusty.Brainard@noaa.gov
Division Chief, Supervisory Oceanographer, Coral Reef Ecosystem Division
National Oceanographic and Atmospheric Administration, Honolulu, HI 96814

Dr. Andreas Andersson, Phone: (858) 999-6033, Email: aandersson@ucsd.edu
Assistant Professor Geosciences Research Division
Scripps Institution of Oceanography, La Jolla CA, 92093-0202