

Andrea M. Quattrini

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EDUCATION

2014	PhD in Biology	Temple University, Philadelphia, PA
2002	MS in Marine Biology	University of North Carolina Wilmington, Wilmington, NC
1999	BS in Biology	<i>Magna Cum Laude</i> , Millersville University, Millersville, PA

RESEARCH EXPERIENCE

2015-	Postdoctoral Researcher , <i>Harvey Mudd College, Claremont, CA</i> Anthozoan Phylogenomics: New approaches to long-standing programs
2014-2015	Postdoctoral Researcher , <i>USGS, Southeast Ecological Science Center, Gainesville, FL</i> Community structure and habitat affiliations in mesophotic and deep reefs in the Caribbean
2009-2014	Nancy Foster Scholar , <i>Temple University, Philadelphia, PA</i> Genetic connectivity of the Octocorallia across abiotic gradients in the deep Gulf of Mexico
2002-2009	Research Associate , <i>UNCW Center for Marine Science, Wilmington, NC</i> Community structure of shelf-edge, open-ocean, and deep-reef fishes off the southeastern US
2002-2002	Fisheries Technician , <i>Carolina Power and Light Company, Southport, NC</i> Sampling and identification of fauna impinged from or entrained into the power plant system
2000-2002	Graduate Research Assistant , <i>UNCW Center for Marine Science, Wilmington, NC</i> Distribution of larval fishes in shelf and Gulf Stream waters in Onslow Bay, North Carolina

TEACHING EXPERIENCE

Instructor

2014-2014 BIO44, Introduction to Ecology & Evolution, Keck Science Dept., *Claremont Colleges, CA*

Co-Instructor

2016 Evolution, *Harvey Mudd College, Claremont, CA*
2016 Marine Ecology, *Harvey Mudd College, Claremont, CA*

Undergraduate Student Mentorship

2016 Mike Adams (*HMC*), Tiana Wu (*Pitzer*), *Claremont Colleges, CA*
2015-2016 Samuel Nguyen, *Temple University, PA*
2011-2012 Rosie Falco, Alex Stevens, Lisa English, *Temple University, PA*
2010-2012 Cheryl Doughty (Current PhD Student at UCLA), *Temple University, PA*
2004-2009 Jennie McClain-Counts (Current Research Tech at USGS), *UNC Wilmington, NC*

Guest Lecturer

- 2015 Oceanography, Keck Science Department, *Claremont Colleges, CA*
2011 Tropical Marine Biology, *Temple University, Philadelphia, PA*
2011 Experimental Marine Biology, *Temple University, Philadelphia, PA*

Teaching Assistant

- 2010-2011 Experimental Marine Biology, *Temple University, Philadelphia, PA*
2001 Biology 105, Intro for Non-Majors, *UNC Wilmington, Wilmington, NC*
1999 Animal Behavior, *Millersville University, Millersville, PA*

Marine Science Educator

- 2001-2002 Wrightsville Cruise Boat and Nature Excursions, *Wilmington, NC*
1999 Seacamp, *Big Pine Key, FL*

FUNDING

- 2016 Rasmussen Summer Research, Harvey Mudd College (**for undergraduate research**)
Delimiting species within deep-sea corals impacted by the 2010 Deepwater Horizon Oil Spill
2016 National Research Vessels 2016 Ship-time Award (L. Allcock, Lead PI, **Contributor**)
Submarine Canyon Ecosystem Services
2015 NSF DEB (C. McFadden & E. Rodriguez co-PIs, **Contributor and Listed Postdoc**)
Anthozoan Phylogenomics: New approaches to long-standing programs
2014 NOAA-Ocean Exploration (A. Demopoulos Lead PI, **Contributor and Listed Postdoc**)
Exploration of Caribbean seamounts within the Greater and Lesser Antilles transition zone: characterization of the benthic ecology and geology
2014 Temple University Dissertation Completion Grant
Genetic Connectivity of the Octocorallia Across Abiotic Gradients in the Deep Gulf of Mexico
2012 Lerner-Gray Fund for Marine Research
Community phylogenetics of deep-sea octocorals in the Gulf of Mexico: Insights into community assembly, biogeography, and systematics of deep-sea species
2009 NOAA Dr. Nancy Foster Scholarship
Connectivity of habitat forming deep-sea corals

AWARDS

- 2016 Deep Sea Biology Society Early Career Award at International Symposium of Deep Sea Corals
2014 Distinguished Temple Graduate Student Research Award
2013 Early Career DeSSC travel award
2011 NOPP Excellence in Partnering Award
2000 American Fisheries Society Early Life History Section Travel Award
2000 Got-Em On Live Bait Club Scholarship

PEER REVIEWED PUBLICATIONS (*undergraduate co-author)

29. **Quattrini A.M.**, C. Gomez, E.E. Cordes. (in press). Environmental filtering and neutral processes shape octocoral community assembly in the deep Gulf of Mexico. *Oecologia*.
28. Radice V.*, **A.M. Quattrini**, E. Edinger, V. Wareham, E.E. Cordes. (in press). Vertical water mass structure in the North Atlantic influences the bathymetric distribution of species in the deep-sea coral genus *Paramuricea*. *Deep-Sea Research I*.
27. **Quattrini A.M.**, A.W.J. Demopoulos. 2016. Ectoparasitism on deep-sea fishes in the western North Atlantic: in situ observations from ROV surveys. *International Journal for Parasitology: Parasites and Wildlife*. ****highlighted in New Scientist****

26. Kennedy B., **A.M. Quattrini**, M.J. Cheadle, G. Garcia-Moliner, J. Chaytor, M. Ford, E. Lobecker, D. Sowers, K. Cantwell, L. McKenna, W. Schmidt, M. Jimenez, A.W.J. Demopoulos, T. Shank, M. Scharer Umierre, C. Mah, the Okeanos Explorer on shore science team 2016. *Océano Profundo: Exploring Puerto Rico's Seamounts, Trenches, and Troughs* In: New frontiers in ocean exploration: The E/V *Nautilus* and NOAA Ship *Okeanos Explorer* 2015 field season. *Oceanography* 29(1), supplement, 84 pp.
25. Chaytor J.D., A.W.J Demopoulos, U.S. ten Brink, C. Baxter, **A.M. Quattrini**, Brothers, D.S. 2016. Assessment of Canyon Wall Failure Process from Multibeam Bathymetry and Remotely Operated Vehicle (ROV) Observations, U.S. Atlantic Continental Margin, in: Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., Moscardelli, L., Mueller, C., Pecher, I., Woelz, S. (Eds.), pp. 103-113. Submarine Mass Movements and their Consequences, 7th International Symposium. Springer International Publishing.
24. **Quattrini A.M.**, M.S. Nizinski, J.D. Chaytor, A.W.J. Demopoulos, E.B. Roark, S.C. France, J.A. Moore, T. Heyl, P.J. Auster, B. Kinlan, C. Ruppel, K.P. Elliott, B.R.C. Kennedy, E. Lobecker, A. Skarke, T.M. Shank. 2015. Exploration of the canyon-incised margin off the northeastern United States reveals dynamic habitats and diverse communities. *PlosOne*. 10(10): e0139904. doi: 10.1371/journal.pone.0139904
23. Ross S.W., M. Rhode, **A.M. Quattrini**. 2015. Demersal fish distribution and habitat use within and near Baltimore and Norfolk canyons, U.S. Middle Atlantic slope. *Deep-Sea Research I*. 103:137-154.
22. **Quattrini A.M.**, I.B. Baums, T.S. Shank, C.L. Morrison, E.E. Cordes. 2015. Testing the depth differentiation hypothesis in a deepwater octocoral. *Proceedings of the Royal Society B*. 282(1807). DOI: 10.1098/rspb.2015.000
21. Ross S.W., S.B. Brooke, **A.M. Quattrini**, C. Watterson. 2015. A deep-sea community, including *Lophelia pertusa*, at unusually shallow depths in the western North Atlantic Ocean off northeastern Florida. *Marine Biology*. 162:635-648. DOI 10.1007/s00227-015-2611-2
20. Doughty C.M.*, **A.M. Quattrini**, E.E. Cordes. 2014. Insights into the population dynamics of the deep-sea coral genus *Paramuricea* in the Gulf of Mexico. *Deep-Sea Research II*. 99:71-82.
19. **Quattrini A.M.**, P.J. Etnoyer, C.M. Doughty*, L. English*, R. Falco*, N. Remon*, M. Rittinghouse*, E.E. Cordes. 2014. A phylogenetic approach to octocoral community structure in the deep Gulf of Mexico. *Deep-Sea Research II*. 99:92-102. doi: 10.1016/j.dsr2.2013.05.027.
18. **Quattrini A.M.**, S.E. Georgian, L. Byrnes*, R. Falco*, E.E. Cordes. 2013. Niche divergence by deep-sea octocorals in the genus *Callogorgia* across the upper continental slope of the Gulf of Mexico. *Molecular Ecology*. 22:4123-4140. doi: 10.1111/mec.12370.
17. Fernholm B., S. Kullander, M. Noren, **A.M. Quattrini**, V. Zintzen, C.D. Roberts, H.K. Mok, C.H Kuo. 2013. Hagfish phylogeny and taxonomy, with description of the new genus *Rubicundus* (Craniata, Myxinidae). *Journal of Zoological Systematics and Evolutionary Research*. 51:296-307. doi: 10.1111/jzs.12035
16. Ilves K.L., **A.M. Quattrini**, G.W. Chaplin, R.I. Eytan, M.W. Westneat, H. Hertler, J.G. Lundberg. 2013. Shifts in coral reef fish assemblage structure over 50 years detected at reefs around New Providence Island. *Proceedings of the Academy of Natural Sciences Philadelphia*. 162:61-87.
15. White H. K., P-Y. Hsing, W. Cho, T. M. Shank, E. E. Cordes, **A. M. Quattrini**, R. K. Nelson, R. Camilli, A. Demopoulos, C. R. German, J. M. Brooks, H. H. Roberts, W. Shedd, C. M. Reddy, C. R. Fisher. 2012. Impact of the *Deepwater Horizon* oil spill on a deep-water coral community in the Gulf of Mexico. *PNAS*. doi: 10.1073/pnas.1118029109
14. **Quattrini A.M.**, S.W. Ross, M.C.T Carlson, M.S. Nizinski. 2012. Megafaunal-habitat associations at a deep-sea coral mound off North Carolina, USA. *Marine Biology*. 159:1079-1094.

13. Ross S.W., M.C.T Carlson, **A.M. Quattrini**. 2012. The utility of museum records for documenting distributions of deep-sea corals off the southeastern United States. *Marine Biology Research*. 8:101-114.
12. Ilves K., L. Kellog, **A.M. Quattrini**, G. Chaplin, H. Hertler, J. Lundberg. 2011. Assessing 50 year change in Bahamian reef fish assemblages: maintenance of community structure in the face of coral degradation? *Bulletin of Marine Science*. 87: 567–588.
11. Ross S.W., **A.M. Quattrini**, A. Roa-Varon, J.P. McClain*. 2010. Species composition and distributions of mesopelagic fishes over the slope of the north-central Gulf of Mexico. *Deep-Sea Research II*. 57: 1926-1956.
10. Davies A.J., G. Duineveld, T. van Weering, F. Mienis **A.M. Quattrini**, H.E. Seim, J.M. Bane, S.W. Ross. 2010. Short-term environmental variability in cold-water coral habitat at Viosca Knoll, Gulf of Mexico. *Deep-Sea Research I* 57:199-212.
9. **Quattrini A.M.**, M.L. Partyka, S.W. Ross. 2009. Aspects of the reproductive biology of *Fenestraja plutonia* (Garman 1881) off North Carolina. *Southeastern Naturalist*. 8:55-70.
8. Ross S.W., **A.M. Quattrini**. 2009. Deep reef fish assemblage patterns on the Blake Plateau (Western North Atlantic). *Marine Ecology*. 30:74-92.
7. Fernholm B., **A.M. Quattrini**. 2008. A new species of Hagfish (Myxinidae: *Eptatretus*) associated with deep-sea coral habitat in the Western North Atlantic. *Copeia* 2008: 126-132.
6. Ross S.W., **A.M. Quattrini**. 2007. The fish fauna associated with deep coral banks off the southeastern United States. *Deep-Sea Research I* 54: 975-1007.
5. Ross S.W., T.L. Casazza, **A.M. Quattrini**, and K.J. Sulak. 2007. Anguilliform larvae collected off North Carolina. *Marine Biology* 150: 681-695.
4. **Quattrini A.M.**, S.W. Ross. 2006. Fishes associated with North Carolina shelf-edge hardbottoms and initial assessment of a proposed marine protected area. *Bulletin of Marine Science* 79: 137-163.
3. **Quattrini A.M.**, D.G. Lindquist, F.M. Bingham, T.E. Lankford, J.J. Govoni. 2005. Distribution of larval fishes among water masses in Onslow Bay, North Carolina: implications for cross-shelf exchange. *Fisheries Oceanography* 14: 413-431.
2. Meister H.S., D.M. Wyanski, J.K. Loefer, S.W. Ross, **A.M. Quattrini**, K.J. Sulak. 2005. Further evidence for the invasion and establishment of *Pterois volitans* (Teleostei: Scorpaenidae) along the Atlantic coast of the United States. *Southeastern Naturalist* 4: 193-206.
1. **Quattrini A.M.**, S.W. Ross, K.J. Sulak, A.M. Necaie, T.L. Casazza, G.D. Dennis. 2004. Marine fishes new to continental United States waters, North Carolina, and the Gulf of Mexico. *Southeastern Naturalist* 3: 155-172.

MANUSCRIPTS (in review)

6. Pappacostas K.J., E.W. Rielly, S.E. Georgian, D.J. Long, S.D. Princiotta, **A.M. Quattrini**, K.E. Reuter, A.L. Freestone. (revision in review). Biological mechanisms of marine invasions. *MEPS*.
5. DeLeo D., S. Lengyl, **A.M. Quattrini**, R. Kulathinal, E.E. Cordes. (in review). Assessing in situ impacts of the Deepwater Horizon oil spill on cold-water corals from the Gulf of Mexico using transcriptomics. *Mol. Ecol*.

SELECTED CONFERENCE PROCEEDINGS

- Quattrini, A.M.**, E. Rodriguez, B. Faircloth, C. McFadden. 2016. Phylogenomics of Anthozoa: New approaches to long-standing problems. *Oral. International Symposium of DSCs*.
- Quattrini, A.M.**, J.D. Chaytor, A.W.J. Demopoulos. 2016. Mesophotic and deep-sea demersal fish assemblages on rugged hardbottoms of the Greater-Lesser Antilles Transition Zone. *Oral. Ocean Sciences*

- Quattrini, A.M.**, J.D. Chaytor, E.E. Cordes, J. Bourque, J.J. Lunden, A.W.J. Demopoulos. 2015. Initial assessment of the biodiversity, geology, and oceanography on Caribbean seamounts in the Greater-Lesser Antilles transition zone. *Poster. Deep Sea Biology Symposium.*
- Quattrini, A.M.**, E.E. Cordes. 2015. The role of water mass and adaptive divergence in structuring octocoral populations in the deep sea. *Poster. Evolution.*
- Quattrini, A.M.**, S.E. Georgian, E.E. Cordes. 2014. Combining genetics, morphology, and niche modeling to reveal the evolution of octocorals of the deep Gulf of Mexico. *Poster. Aquatic Sciences. *Best Student Poster**
- Quattrini, A.M.**, C. Doughty, D. Young, E.E. Cordes. 2013. Insights into the population dynamics of the deep-sea coral genus *Paramuricea*: with experimental results on oil and dispersant exposure. *Oral. Aquatic Sciences. *Best Student Presentation**
- Quattrini, A.M.**, W. Cho, T. Shank, C. Doughty, R. Falco, E.E. Cordes. 2012. Community phylogenetics of octocorals in the deep Gulf of Mexico, with notes on the evolutionary relationships of their ophiuroid associates. *Poster. ISDSC.*
- Doughty, C., **A.M. Quattrini**, E.E. Cordes. 2012. Insights into the population dynamics of the deep-sea coral genus *Paramuricea*. *Poster. ISDC. * Best Student Poster**
- Quattrini, A.M.**, C. Doughty, P.J. Etnoyer, E.E. Cordes. 2011. Octocoral communities of the Gulf of deep Gulf of Mexico. *Oral. BOEMRE ITM.*
- Quattrini, A.M.**, C. Doughty, P.J. Etnoyer, E.E. Cordes. 2011. Community phylogenetics of octocorals in the deep Gulf of Mexico. *Oral. ASLO Aquatic Sciences Meeting.*
- Quattrini, A.M.**, P.J. Etnoyer, E.E. Cordes. 2010. Phylogenetic diversity of octocorals in the Gulf of Mexico. *Oral. International Deep Sea Biology Symposium.*
- Quattrini, A.M.**, P.J. Etnoyer, E.E. Cordes. 2010. Genetic diversity of gorgonians in the Gulf of Mexico. *Poster. Ocean Sciences.*
- Quattrini, A.M.**, M.C.T. Carlson, S.W. Ross, M.S. Nizinski. 2009. Fish-habitat relationships at a deep-water coral mound off North Carolina, USA. *Oral. ASIH.*
- Ross, S.W., **A.M. Quattrini**, A. Roa-Varon, J.P. McClain. 2009. Species composition and distributions of mesopelagic fishes over the slope of the north-central Gulf of Mexico. *Oral. ASIH.*
- Quattrini, A.M.**, S.J. Artabane, S.W. Ross, A. Roa-Varon, J.P. McClain. 2008. Distribution of Anguilliform leptocephali in the Gulf of Mexico, with preliminary data on trophic position using stable isotope analyses. *Poster. ASIH.*
- Quattrini, A.M.**, M.C.T. Carlson, S.W. Ross, M.S. Nizinski. 2008,2009. Mapping benthic habitat and megafauna on a deepwater coral mound off North Carolina, USA. *Poster for International Deep-Sea Coral Symposium 2008, and NMFS NFSC 9th Science Symposium, 2009.*
- Quattrini, A.M.**, S.W. Ross, K.J. Sulak. 2005. An initial assessment of the fish community and habitats within a proposed outer continental shelf marine protected area off North Carolina with comparisons to nearby hardbottom communities. *Oral. ASIH.*

INVITED SEMINARS

- 2016 Pomona College, Claremont CA
Testing the Depth Differentiation Hypothesis in Deepwater Octocorals
- 2015 Puerto Rico Department of Natural and Environmental Resources
Océano Profundo 2015: Exploring Puerto Rico's Trenches, Seamounts, and Troughs
- 2015 Harvey Mudd College, Claremont CA
Testing the Depth Differentiation Hypothesis in Deepwater Octocorals in the Gulf of Mexico
- 2015 NOAA Webinar Series
Fishes Associated with Deep Reef Habitats in the Western North Atlantic
- 2011 Academy of Natural Sciences, Philadelphia PA
Genetic Connectivity of Habitat Forming Corals in the Deep Gulf of Mexico

RESEARCH EXPEDITIONS

Totaling 52 weeks at sea, 1 Alvin Dive, 12 Johnson Sea-Link Dives

Participation as shore-side scientist during 6 NOAA Okeanos Explorer Telepresence Cruises not included

- 2016 R/V Celtic Explorer, “Exploration of Whittard Canyon”, 18 days
- 2016 E/X Okeanos, Cruise Participant at UH Exploration Command Center, 7 days
- 2015 E/X Okeanos, **Biological Science Team Lead**, “Océano Profundo”, 20 days
- 2014 R/V Celtic Explorer, “Exploration of Whittard Canyon”, 15 days
- 2013 E/X Okeanos, **Shipboard Science Team Lead** “NEUS Canyons Expedition,” 18 days
- 2012 Andros Bahamas, survey of historically sampled sites with ANSP, 8 SCUBA dives, 12 days
- 2011 HOS Holiday Chouest, “NRDA Deepwater Coral Cruise,” 15 days
- 2011 HOS Sweetwater, **Co-Lead Scientist**, “NRDA Oil Response Cruise,” 18 days
- 2010 R/V Atlantis, “NSF Rapid Response: Deepwater Horizon Oil Spill,” 10 days
- 2010 R/V Ron Brown, “Lophelia II: Oil seeps and deep reefs,” 22 days
- 2010 R/V White Holly, **Benthic Habitat Specialist**, 22 days
- 2009 R/V Seward Johnson, “USGS DISCOVRE Expedition, Lophelia II,” 12 days
- 2009 R/V Ron Brown, “Lophelia II: Reefs, rigs, and wrecks,” 18 days
- 2008 R/V Nancy Foster, **Night Watch Chief**, “USGS DISCOVRE Expedition,” 10 days
- 2008 R/V Nancy Foster, “Lophelia II: Reefs, rigs and wrecks,” 12 days
- 2007 R/V Cape Hatteras, **Night Watch Chief**, “Chemo III,” midwater trawling over seeps, 21 days
- 2006 R/V Nancy Foster, Multibeam mapping cruise: SEUS deep coral areas, 7 days
- 2006 R/V Cape Hatteras, **Night Watch Chief**, Trawling near NC deep coral banks, 4 days
- 2005 R/V Seward Johnson, NOAA Office of Ocean Exploration, “Life on the Edge,” 18 days
- 2004 R/V Cape Fear, NURC/UNCW “Snowy Wreck Assessment,” 1 day
- 2004 R/V Seward Johnson, NOAA Office of Ocean Exploration, “Life on the Edge,” 14 days
- 2004 R/V Delaware II, NOAA/NMFS, “US South Atlantic Coast MPA Candidate Sites,” 10 days
- 2003 R/V Seward Johnson, NOAA Office of Ocean Exploration, “Life on the Edge,” 12 days
- 2002 R/V Seward Johnson, NOAA Office of Ocean Exploration, “Islands in the Stream,” 12 days
- 2000 R/V Cape Fear, Coastal Ocean Research and Monitoring Program, 17 cruises, 37 days

MEDIA COVERAGE

- 2016 The New Scientist, Highlight of Quattrini and Demopoulos 2016 *IJPPAW*, 3 Aug 2016
<https://www.newscientist.com/article/2099739-videos-reveal-the-russian-doll-parasitic-world-of-the-deep-seas/>
- 2015 The Weather Channel, Wake up with Al, 3 min live interview, 3 June 2015
<http://www.weather.com/tv/shows/wake-up-with-al/video/amazing-deep-sea-discoveries>
- 2015 Narration of Deep-sea Creatures Video on Quartz, >24 million views, >400,000 shares on facebook
<http://qz.com/401441/researchers-released-stunning-images-of-deep-sea-creatures-including-some-that-dont-even-have-names/>
- 2015 PBS NewsHour, See the strange creatures NOAA found at the bottom of the sea
<http://www.pbs.org/newshour/updates/coral-forests-rare-sea-stars-inhabit-unseen-ocean-floor>
- 2015 IFLS, Newly Discovered, Unnamed Deep Sea Creatures Found Off The Coast Of Puerto Rico
<http://www.iflscience.com/plants-and-animals/newly-discovered-and-unnamed-deep-sea-creatures-found-coast-puerto-rico>
- 2015 The Independent, Incredible images of undiscovered deep-sea creatures
<http://www.independent.co.uk/news/science/incredible-images-of-undiscovered-deep-sea-creatures-released-after-puerto-rico-ocean-floor-expedition--video-10282052.html>
- 2015 Interviewed by Telemundo de Puerto Rico, Oceano Profundo Expedition 2015
- 2013 White House Blog, NOAA Deep-sea canyons expedition
<http://www.whitehouse.gov/blog/2013/07/16/dive-ocean-exploration>

- 2013 NOAA News. Deep-sea canyons discoveries
<http://research.noaa.gov/News/NewsArchive/LatestNews/TabId/684/ArtMID/1768/ArticleID/10217/Ocean-explorers-make-discoveries-in-deep-sea-canyons-off-US-Northeast.aspx>
- 2013 Christian Science Monitor, Remarkable diversity of life found in sea canyons off northeast coast
<http://www.csmonitor.com/Science/2013/0805/Remarkable-diversity-of-life-found-in-sea-canyons-off-Northeast-coast>
- 2010 National Public Radio, Broadcasted Interview with *Living on Earth* “Code Red for Gulf Coral”

COMMUNITY OUTREACH

- 2016 Scripps Academy Math and Science Scholars Program (MASS)
<http://www.scrippscollege.edu/academy/math-and-science-scholars>
- 2015 USGS *Soundwaves* Article, “Telepresence Expedition Explores Deep-Sea Areas off Puerto Rico”
<http://soundwaves.usgs.gov/2015/06/fieldwork2.html>
- 2015 EcoExploratorio, Public Presentation on “Oceano Profundo 2015” San Juan, Puerto Rico
- 2015 Reddit Ask Us Anything, “Oceano Profundo 2015” April 16, 2015
- 2015 Composition of content for coverage of the NOAA-OE Okeanos “Oceano Profundo Expedition”
<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1502/background/snapper-grouper/welcome.html>
- 2014 Keynote Speaker for NOAA College of Exploration Online Workshop
- 2013 Skype in the Classroom, Exploring the Deep Ocean, Educating Grades 2-6
<http://education.skype.com/projects/6522-digital-explorer-oceans-exploring-the-deep-ocean>
- 2013 Live question and answer sessions with the Aquarium of the Pacific. Onboard Okeanos Explorer
- 2013 Composition of content for coverage of the NOAA-OE Okeanos NEUS Canyons Expedition
<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1304/logs/july14/july14.html>
<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1304/background/plan/welcome.html>
- 2011 Presentation for 4th grade class at Snyder Elementary. PA: "The Wonderful World of Corals"
- 2009 Composition of content for coverage of the BOEMRE-OER funded “Oil Seeps and Deep Reefs”
<http://oceanexplorer.noaa.gov/explorations/10lophelia/logs/oct21/oct21.html>
- 2008 Composition of content for coverage of the MMS-OER funded “Reefs, Rigs, and Wrecks”
<http://oceanexplorer.noaa.gov/explorations/08lophelia/background/connectivity/connectivity.html>
- 2005 Composition of content for coverage of NOAA-OER funded “Life on the Edge”
<http://oceanexplorer.noaa.gov/explorations/05coralbanks/logs/oct23/oct23html> &.. *[oct31/oct31.html](http://oceanexplorer.noaa.gov/explorations/05coralbanks/logs/oct31/oct31.html)*

SERVICE

- 2016 6th International Symposium on Deep-Sea Corals: Steering Committee and Mentor-Mentee Program
- 2013 Ocean Exploration Trust Caribbean Workshop Participant
- 2010 Biology Graduate Student Society at Temple University. President and Co-Founder
- 2009 Academy of Natural Sciences in Philadelphia. Volunteer-Ichthyology Department

PROFESSIONAL DEVELOPMENT

- 2016 NSF Day, NSF Workshop Pasadena City College
- 2016 Harvey Mudd College, Conference on How to Flip Your Classroom
- 2015 UC Davis, Data Carpentry workshop
- 2015 UC Davis, IPlant Bioinformatics workshop
- 2014 NOAA NWFSC, Deep-sea coral genomics workshop
- 2013 Early Career/Student DeSSC workshop
- 2013 HIMB Pauley Summer Program: Coral Genomics
- 2011 Molecular Evolution Workshop, MBL, Woods Hole

SCIENTIFIC REVIEW

BMC Evolutionary Biology, Bulletin of Marine Science, Deep-Sea Research I and II, Fishery Bulletin, Journal of Fish Biology, Journal of the Marine Biological Association UK, PloS One, Progress in Oceanography, Royal Society Open Science, Scientific Reports

SOCIETY MEMBERSHIP (*past and present*)

Society of Systematic Biologists, American Society of Limnology and Oceanography, Deep-Sea Biology Society, American Fisheries Society, American Society of Ichthyologists and Herpetologists