

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-present Mike Adams, *Harvey Mudd College, CA*
2016 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

- 2016 Pseudoscience, Harvey Mudd College, *Claremont, CA*
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, **Collaborator, Co-Writer**)
Submarine Canyon Ecosystem Services
2015 NSF DEB (C. McFadden & E. Rodriguez co-PIs, **Co-Writer and Listed Postdoc**)
Anthozoan Phylogenomics: New approaches to long-standing programs
2014 NOAA-Ocean Exploration (A. Demopoulos Lead PI, **Co-Writer 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

Pending Funding

- 2017 BOEM (**Co-PI, 5YR**)
Deepwater Atlantic Canyons II
2017 NOAA Restore Act (**Co-PI, 2 YR**)
Population Connectivity of Deepwater Corals in the Northern Gulf of Mexico
2017 NOAA OER (**Co-PI, 2 YR**)
Exploring the Outer Limits: Environmental and Biological Diversity of California Seamounts
2017 Schmidt Ocean Institute (**Co-PI, ship time**)
Exploring environmental, biological, and geological connections at seamounts and banks within the US Caribbean EEZ and surrounding areas

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)

- 31. **Quattrini, A.M.**, A.W.J. Demopoulos, R. Singer, A. Roa-Varon, J.D. Chaytor. (in press). Mesophotic and deep-sea demersal fish assemblages in rugged habitats in the northeastern Caribbean. *Deep-Sea Research I*.
- 30. **Quattrini A.M.**, C. Gomez, E.E. Cordes. 2017. Environmental filtering and neutral processes shape octocoral community assembly in the deep Gulf of Mexico. *Oecologia*. 183:221-2236.
- 29. Pappacostas K.J., E.W. Rielly, S.E. Georgian, D.J. Long, S.D. Princiotta, **A.M. Quattrini**, K.E. Reuter, A.L. Freestone. 2017. Biological mechanisms of marine invasions. *MEPS*. 565:251-268
- 28. Radice V.*, **A.M. Quattrini**, E. Edinger, V. Wareham, E.E. Cordes. 2016. 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*. 116:253-263.
- 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*, A. Stevens*, 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 *Fenestrella plautonia* (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. Necaise, 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 prep/review)

4. DeLeo D., S. Lengyl, **A.M. Quattrini**, R. Kulathinal, E.E. Cordes. (in revision). Assessing in situ impacts of the Deepwater Horizon oil spill on cold-water corals from the Gulf of Mexico using transcriptomics. *Mol. Ecol.*
3. McFadden C.S. R. Haverkort-Yeh, A.M. Reynolds, A. Halász, **A.M. Quattrini**, Y. Benayahu, R.J. Toonen. (in revision). Species delimitation in the Red Sea octocoral genus *Ovabunda* (Alcyonacea: Xeniidae): species boundaries in the absence of morphological or ecological differentiation? *MPE*
2. **Quattrini A.M.**, T. Wu*, K. Soong, Y. Benayahu, C.S. McFadden. (in prep) A next generation approach to species delimitation in the speciose octocoral genus *Sinularia*. *Coral Reefs*.
1. **Quattrini A.M.**, B. Faircloth, L. Dueñas, I. Botia, M. Brugler, D. DeLeo, S. Herrera, A. Lara, S. Lee, C. Prada, G. Radis Baptista, Catalina Ramirez Portilla, F. Zappata, J. Sanchez, E. Rodriguez, C.S. McFadden. (In prep). Targeted next-generation sequencing of ultraconserved elements and exons for use in Anthozoan phylogenomics. *Mol. Ecol. Res.*

SELECTED CONFERENCE PROCEEDINGS

- Quattrini, A.M.**, E. Rodriguez, B. Faircloth, C. McFadden. 2016. Phylogenomics of Anthozoa: New approaches to long-standing problems. *Oral. ISDSC16. *DSB Society Early Career Award**
- 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 University of La Verne, La Verne CA
Testing the Depth Differentiation Hypothesis in Deepwater Octocorals in the Gulf of Mexico
- 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 8 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 mil 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 FuturePhy workshop, Field Museum of Natural History, Chicago
- 2016 Okeanos Explorer Video Annotation Advisory Group
- 2016 6th Int. Symposium on Deep-Sea Corals Steering Committee, Creator of 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 CS5 Green, Computing for Biologists (Python Programming and Principles)
- 2016 UCE Library Preparation, Faircloth Lab, LSU
- 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, Molecular Ecology, 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