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EDUCATIONAL BACKGROUND

- 1992 Ph.D., Oceanography, UC San Diego, Scripps Institution of Oceanography
1986 B.Sc., Biology, Honours with Great Distinction, Concordia University, Montreal, Canada

PROFESSIONAL EXPERIENCE

- 2016 - present Professor of Biology, University of Louisiana at Lafayette
2012 - present Mr. Charles R. Godchaux/BORSF Professorship in Coastal Biodiversity
Research Development, University of Louisiana at Lafayette
2010 - 2016 Associate Professor of Biology, University of Louisiana at Lafayette
2004 - 2009 Assistant Professor of Biology, University of Louisiana at Lafayette
1999 - 2003 Assistant Professor of Biology, College of Charleston, South Carolina
1997 - 1998 Visiting Assistant Professor of Biology, College of Charleston, South Carolina
1996 - 1997 Postdoctoral Fellow, Department of Organismic & Evolutionary Biology,
Harvard University
1996 Adjunct Assistant Professor of Biology, Bowdoin College, Maine
1993 - 1996 Postdoctoral Fellow, Dept. of Zoology, University of New Hampshire
1992 - 1993 Postdoctoral Fellow, Woods Hole Oceanographic Institution
1990 - 1992 Research assistant, San Diego Natural History Museum
1987 - 1988 Research assistant, Scripps Institution of Oceanography

PUBLICATIONS (* denotes undergraduate co-author)

- 2017 Heestand Saucier E, Sajjadi A, France SC. A taxonomic review of the genus *Acanella* (Cnidaria: Octocorallia: Isididae) in the North Atlantic Ocean, with descriptions of two new species. **Zootaxa** 4323 (3): 359–390 [doi.org/10.11646/zootaxa.4323.3.2]
2017 Wicksten M, De Grave S, France S, Kelley C. Filter-feeding in a Deep-Sea Benthic Shrimp (Decapoda: Caridea: Stylodactylidae), with Records of the Deepest Carideans. **ZooKeys** 646: 17-23 [doi: 10.3897/zookeys.646.10969]
2016 Lawler SN, Kellogg CA, France SC, Clostio RW, Brooke SD, Ross SW. Coral-Associated Bacterial Diversity is Conserved Across Two Deep-Sea *Anthothela* Species. **Frontiers in Microbiology** 7: 458 [doi:10.3389/fmicb.2016.00458]
2015 Quattrini A, Nizinski MS, Chaytor JD, Demopoulos AWJ, Roark EB, France SC, Moore JA, Hey T, Auster PJ, Kinlan B, Ruppel C, Elliott KP, Kennedy BRC, Lobecker E, Skarke A, Shank TM. Exploration of the canyon-incised continental margin of the northeastern United States reveals dynamic habitats and diverse communities. **PLoS ONE** 10: e0139904 [doi:10.1371/journal.pone.0139904]
2015 Zapata F, Goetz FE, Smith SA, Howison M, Siebert S, Church SH, Sanders SM, Ames CL, McFadden CS, France SC, Daly M, Collins AG, Haddock SHD, Dunn CW, Cartwright P. Phylogenomic analyses support traditional relationships within Cnidaria. **PLoS ONE** 10: e0139068 [doi:10.1371/journal.pone.0139068]

- 2015 Pante E, SC France, D Gey, C Cruaud & S Samadi. An inter-ocean comparison of coral endemism on seamounts: the case of *Chrysogorgia*. **Journal of Biogeography** 42: 1907–1918 [doi:10.1111/jbi.12564]
- 2015 Pante, E, J Abdelkrim, A Viricel, D Gey, SC France, MC Boisselier & S Samadi. Use of RAD sequencing for delimiting species. **Heredity** 114: 450–459 [doi:10.1038/hdy.2014.105]
- 2015 de Moura Neves B, E Edinger, C Hillaire-Marcel, E Heestand Saucier, SC France, M Treble & V Wareham. Dense forests of a deep-water bamboo coral in a muddy Arctic environment. **Marine Biodiversity** 45: 867-871 [doi: 10.1007/s12526-014-0291-7]
- 2013 Brugler, MR, DM Opresko & SC France. The evolutionary history of the order Antipatharia (Cnidaria: Anthozoa: Hexacorallia) as inferred from mitochondrial and nuclear DNA: Implications for black coral taxonomy and systematics. **Zoological Journal of the Linnean Society** 169:312-361 [doi: dx.doi.org/10.1111/zoj.12060]
- 2013 Pante, E, E Heestand Saucier & SC France. Molecular and morphological data support reclassification of the octocoral genus *Isidoides*. **Invertebrate Systematics** 27:365-378 [doi: dx.doi.org/10.1071/IS12053]
- 2012 Pante, E, SC France, A Couloux, C Cruaud, CS McFadden, S Samadi & L Watling. Deep-sea origin and in-situ diversification of chrysogorgiid octocorals. **PLoS ONE** 7: e38357
- 2011 Watling, L, SC France, E Pante & A Simpson. Biology of Deep-Water Octocorals. **Advances in Marine Biology** 60: 41-123 [doi: 10.1016/B978-0-12-385529-9.00002-0]
- 2011 Watling, L & SC France. A new genus and species of bamboo coral (Octocorallia: Isididae: Keratoisidinae) from the New England Seamounts. **Bulletin of the Peabody Museum of Natural History** 52: 209-220 [doi: 10.3374/014.052.0202]
- 2011 de Buron, I, SC France, VA Connors, WA Roumillat & LC Tsoi. Philometrids of the southern flounder *Paralichthys lethostigma*: a multidimensional approach to determine their diversity. **Journal of Parasitology** 97: 466–475 [doi: 10.1645/GE-2564.1]
- 2011 McFadden, CS, Y Benayahu, E Pante, JN Thoma, PA Nevarez & SC France. Limitations of Mitochondrial Gene Barcoding in Octocorallia. **Molecular Ecology Resources** 11: 19-31 [doi: 10.1111/j.1755-0998.2010.02875.x]
- 2010 Pante, E. & S.C. France. *Pseudochrysogorgia bellona* n. gen., n. sp.: a new genus and species of chrysogorgiid octocoral (Coelenterata, Anthozoa) from the Coral Sea. **Zoosystema** 32: 595-612
- 2010 Wagner D, Brugler MR, Opresko DM, France SC, Montgomery AD, Toonen R. Using morphometrics, *in situ* observations and genetic characters to distinguish amongst commercially valuable Hawaiian black coral species; a redescription of *Antipathes grandis* Verrill, 1928 (Antipatharia: Antipathidae). **Invertebrate Systematics** 24: 271-290 [doi:10.1071/IS10004]
- 2010 McFadden C.S., J.A. Sanchez, S.C. France. Molecular Phylogenetic Insights into the Evolution of Octocorallia: A Review. **Integrative and Comparative Biology** 50: 389-410 [doi: 10.1093/icb/icq056]
- 2009 Thoma, J.N., E. Pante, M.R. Brugler, S.C. France. Deep-sea octocorals and antipatharians show no evidence of seamount-scale endemism in the NW Atlantic. **Marine Ecology Progress Series** 397:25-35 [doi: 10.3354/meps08318]
- 2009 van der Ham, J.L., M.R. Brugler, S.C. France. Exploring the utility of an indel-rich, mitochondrial intergenic region as a molecular barcode for bamboo corals (Octocorallia: Isididae). **Marine Genomics** 2:183-192 [doi: 10.1016/j.margen.2009.10.002]
- 2008 Brugler, M.R. & S.C. France. The mitochondrial genome of a deep-sea bamboo coral (Cnidaria, Anthozoa, Octocorallia, Isididae): genome structure and putative origins of replication are not conserved among octocorals. **Journal of Molecular Evolution** 67:

- 125-136 [doi:10.1007/s00239-008-9116-2] [doi: 10.1007/s00239-008-9116-2]
- 2007 Daly, M., M.R. Brugler, P. Cartwright, A.G. Collins, M.N. Dawson, S.C. France, C.S. McFadden, D.M. Opresko, E. Rodriguez, S. Romano, J. Stake. The phylum Cnidaria: A review of phylogenetic patterns and diversity 300 years after Linnaeus. In: Zhang, Z.-Q. & Shear, W.A. (Eds) (2007) *Linnaeus Tercentenary: Progress in Invertebrate Taxonomy*. **Zootaxa** 1668: 127-182
- 2007 France, S.C. Genetic analysis of bamboo corals (Cnidaria: Octocorallia: Isididae): does lack of colony branching distinguish *Lepidisis* from *Keratoisis*? **Bulletin of Marine Science** 81: 323-333
- 2007 Brugler, M.R., & S.C. France. The complete mitochondrial genome of the black coral *Chrysopathes formosa* (Cnidaria:Anthozoa:Antipatharia) supports classification of antipatharians within the subclass Hexacorallia. **Molecular Phylogenetics and Evolution** 42: 776-788 [doi:10.1016/j.ympev.2006.08.016]
- 2006 McFadden, C.S., S.C. France, J.A. Sanchez & P. Alderslade. A molecular phylogenetic analysis of the Octocorallia (Cnidaria: Anthozoa) based on mitochondrial protein-coding sequences (*ND2*, *msh1*). **Molecular Phylogenetics and Evolution** 41: 513-527 [doi:10.1016/j.ympev.2006.06.010]
- 2004 Smith, P.J., S.M. McVeagh, J.T. Mingoia*, & S.C. France. Mitochondrial DNA sequence variation in deep-sea bamboo corals (Keratoisidinae) species in the Southwest and Northwest Pacific Ocean. **Marine Biology** 144: 253-261 [doi:10.1007/s00227-003-1206-5]
- 2003 Sanchez, J.A., C.S. McFadden, S.C. France & H.R. Lasker. Molecular phylogenetic analyses of shallow-water Caribbean octocorals. **Marine Biology** 142: 975-987 [doi:10.1007/s00227-003-1018-7]
- 2002 France, S. C. & L.L. Hoover*. Patterns of mitochondrial DNA sequence variation among deep-seamount octocorals (Cnidria, Anthozoa). **Hydrobiologia** 471:149-155 [doi: 10.1023/A:1016517724749]
- 2001 France, S.C. & L.L. Hoover*. Analysis of variation in mitochondrial DNA sequences (*ND3*, *ND4L*, *MSH*) among Octocorallia (Cnidaria, Anthozoa). **Bulletin of the Biological Society of Washington** 10:110-118
- 2001 Berntson, E.A. & S.C. France. Generating DNA sequence information from museum collections of octocoral specimens (Phylum Cnidaria: Class Anthozoa). **Bulletin of the Biological Society of Washington** 10:119-129
- 2001 Berntson, E.A., F.M. Bayer, A.G. McArthur & S.C. France. Phylogenetic relationships within the Octocorallia (Cnidaria: Anthozoa) based on nuclear 18S rRNA sequences. **Marine Biology** 138: 235-246
- 1999 Rosel, P.E., S.C. France, J.Y. Wang & T.D. Kocher. Genetic structure of harbour porpoise *Phocoena phocoena* populations in the Northwest Atlantic based on mitochondrial and nuclear markers. **Molecular Ecology** 8: S41-S54
- 1999 France, S.C., N. Tachino, T.F. Duda, Jr., R.A. Shleser & S.R. Palumbi. Intraspecific genetic diversity in the marine shrimp *Penaeus vannamei*: multiple polymorphic elongation factor-1alpha loci revealed by intron sequencing. **Marine Biotechnology** 1: 261-268
- 1999 Berntson, E.A., S.C. France & L.S. Mullineaux. Phylogenetic Relationships within the Class Anthozoa (Phylum Cnidaria) Based on Nuclear 18S rDNA Sequence Information. **Molecular Phylogenetics and Evolution** 13: 417-433

- 1996 France, S.C., P.E. Rosel, J.E. Agenbroad, L.S. Mullineaux, & T.D. Kocher. DNA sequence variation of mitochondrial large-subunit rRNA provides support for a two subclass organization of the Anthozoa (Cnidaria). **Molecular Marine Biology and Biotechnology** 5(1): 15-28
- 1996 France, S.C. & T.D. Kocher. Geographic and bathymetric patterns of mitochondrial 16S rRNA sequence divergence among deep-sea amphipods, *Eurythenes gryllus*. **Marine Biology** 126(4): 633-644
- 1996 France, S.C. & T.D. Kocher. DNA sequencing of formalin-fixed crustaceans from archival research collections. **Molecular Marine Biology and Biotechnology** 5 (4): 304-313
- 1995 Mullineaux, L.S. & S.C. France. Dispersal mechanisms of deep-sea hydrothermal vent fauna. In **Seafloor Hydrothermal Systems: Physical, Chemical, Biological and Geological Interactions**, S. E. Humphris, R. A. Zierenberg, L. S. Mullineaux, and R. E. Thomson, eds. Geophysical Monograph 91, American Geophysical Union, pp. 408 - 424
- 1995 Brusca, R.C., R. Wetzler & S.C. France. Cirolanidae (Crustacea: Isopoda: Flabellifera) of the Tropical Eastern Pacific. **Proceedings of the San Diego Society of Natural History** No. 30: 1 - 96
- 1994 France, S.C. Genetic population structure and gene flow among deep-sea amphipods, *Abyssorchomene* spp., from six California Continental Borderland basins. **Marine Biology** 118: 67-77
- 1993 France, S.C. Geographic variation among three isolated populations of the hadal amphipod *Hirondellea gigas* (Crustacea: Amphipoda: Lysianassoidea). **Marine Ecology Progress Series** 92:277-287
- 1993 Martin, J.W., S.C. France & C.L. Van Dover. *Halice hesmonectes*, a new species of pardaliscid amphipod (Crustacea, Peracarida) from hydrothermal vents in the eastern Pacific. **Canadian Journal of Zoology** 71: 1724-1732
- 1992 France, S.C., R.C. Vrijenhoek & R.R. Hessler. Genetic differentiation between spatially-disjunct populations of the deep-sea, hydrothermal vent-endemic amphipod *Ventiella sulfuris*. **Marine Biology** 114: 551-559
- 1992 Brusca, R.C. & S.C. France. The genus *Rocinela* (Crustacea: Isopoda: Aegidae) in the tropical eastern Pacific. **Zoological Journal of the Linnean Society** 106: 231-275
- 1992 Van Dover, C.L., S. Kaartvedt, S.M. Bollens, P.H. Wiebe, J.W. Martin, & S.C. France. Deep-sea amphipod swarms. **Nature** 358: 25-26
- 1987 Hessler, R.R., S.C. France, M.A. Boudrias. Hydrothermal Vent Communities of the Marianas Back-Arc Basin. **Eos** 68(44): 1531 (Abstract)

Popular literature:

- 2018 Bohnenstiehl, D.R., S. C. France, K. Cantwell, and M. White, "Mountains in the Deep: Exploration of the Seamounts of the Central Pacific Basin". In: Raineault, N.A, J. Flanders, and A. Bowman, eds. 2018. New frontiers in ocean exploration: The E/V *Nautilus*, NOAA Ship *Okeanos Explorer*, and R/V *Falkor* 2017 field season. *Oceanography* 31(1), supplement, 126 pp. <https://doi.org/10.5670/oceanog.2018.supplement.01>
- 2018 Wagner, D., S. C. France, and C. Adams, "2018: A Shift in the Focus of Deep-Sea Exploration". In: Raineault, N.A, J. Flanders, and A. Bowman, eds. 2018. New frontiers in ocean exploration: The E/V *Nautilus*, NOAA Ship *Okeanos Explorer*, and

- R/V *Falkor* 2017 field season. *Oceanography* 31(1), supplement, 126 pp. <https://doi.org/10.5670/oceanog.2018.supplement.01>
- 2016 Kelley, C., S.C. France, F. Parrish, D. Wagner, M. Gerring, & T. Garcia. "CAPSTONE's First Year – 2015 Hohonu Moana: Exploring Deep Waters off Hawai'i." In: Bell, K.L.C., M.L. Brennan, J. Flanders, N.A. Raineault, and K. Wagner, eds. 2016. *New frontiers in ocean exploration: The E/V Nautilus and NOAA Ship Okeanos Explorer 2015 field season*. *Oceanography* 29(1), supplement, pp. 68-73, <http://dx.doi.org/10.5670/oceanog.2016.supplement.01>
- 2012 France, S.C. "Antipatharia." In: **AccessScience** (McGraw Hill Education, 2012), <http://accessscience.com/content/antipatharia/>
- 2009 Pante, E., S.C. France, "Randonnée au fond des océans: l'exploration des monts sous-marins (Translation: Hiking to the bottom of oceans: The exploration of undersea mountains)", **Le Courrier de la Nature**, 34-41
- 2004 France, S.C. "Anthozoa." In: Schlager, N., ed., **Grzimek's Animal Life Encyclopedia**, Vol. 1: Lower Metazoans and Lesser Deuterostomes, Schlager Group Inc., Chicago.
- 1991 Hessler, R.R., S.C. France & M.A. Boudrias. "The Ocean Depths." In: F. H. Talbot and R. E. Stevenson, eds., **Encyclopedia of the Earth: Oceans and Islands**, Smithmark, New York.

Science blogs:

- 2018 France, S.C., E. Kenchington "Importance of Connectivity" Okeanos Explorer Background Essay (<https://oceanexplorer.noaa.gov/okeanos/explorations/ex1808/background/connectivity/welcome.html>)
- 2018 France, S.C. "Stuck to Rock and Anchored in Mud" Okeanos Explorer Mission Log (<https://oceanexplorer.noaa.gov/okeanos/explorations/ex1803/logs/may3/welcome.html>)
- 2017 France, S.C. "Enigmatic Invertebrates: The Dandelion Animal" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1706/logs/july30/welcome.html>)
- 2017 France, S.C. "Color in Deep-sea Octocorals" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1705/logs/may16/welcome.html>)
- 2017 France, S.C. "Birding on the High Seas" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1705/logs/may13/welcome.html>)
- 2017 France, S.C. "What is the Deep Sea?" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1705/logs/apr30/welcome.html>)
- 2017 France, S.C. "Seamounts of the Deep Central Pacific Basin: A Biological Unknown" Okeanos Explorer Background Essay (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1705/background/biology/welcome.html>)
- 2016 France, S.C. "Life in the Deep-sea Coral Forest" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1606/logs/aug9/welcome.html>)
- 2016 Kelley, C. & France, S.C. "Guyots: Intriguing Flat-topped Seamounts that Host a Diversity of Habitats for Deepwater Animals" Okeanos Explorer Background Essay (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1606/background/guyots-bio/welcome.html>)
- 2016 France, S.C. "How Octocorals Are Like Plants" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1605/logs/jul2/welcome.html>)
- 2015 France, S.C. "Here in Hawaiian Waters It Is...Cold!" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1504/logs/sept27/sept27.html>)
- 2015 France, S.C. "What Is In a Name, and Why Do We Care?" Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1504/logs/sept19/sept19.html>)

- 2015 France, S.C. “A Long Time Coming,” Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1504/logs/sept12/sept12.html>)
- 2015 France, S.C. “Deep-sea Corals: A Primer,” Okeanos Explorer Background Essay (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1504/background/corals/welcome.html>)
- 2014 France, S.C. “Cerianthids, Zoanthids, and Anemones...Oh My!” Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1404/logs/oct4/oct4.html>)
- 2014 France, S.C. “The Marvel of Telepresence: Scientific Collaboration Across the Miles,” Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1404/logs/sept29/sept29.html>)
- 2014 France, S.C. “Exploring Our Deepwater Backyard,” Okeanos Explorer Background Essay (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1404/background/backyard/welcome.html>)
- 2013 France, S.C. “A Wealth of Bamboo Corals,” Okeanos Explorer Mission Log (<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1304/logs/aug7/aug7.html>)
- 2012 France, S.C. “More than Meets the Eye,” NC Museum of Science Log (<https://deepwatercanyons.wordpress.com/2012/09/08/more-than-meets-the-eye/>)
- 2012 France, S.C. “The Gold Standard,” Ocean Explorer Mission Log (<http://oceanexplorer.noaa.gov/explorations/12midatlantic/logs/sep10/sep10.html>)
- 2009 France, S.C. “Deep-water Connections: Probing the Southern Limits of Distribution of North Atlantic Deep-Sea Coral Communities” Ocean Explorer Mission Summary (<http://oceanexplorer.noaa.gov/explorations/09deepseacorals/logs/summary/summary.html>)
- 2005 France, S.C. “Will the real *Lepidisis* please stand up?” Ocean Explorer Mission Log (<http://oceanexplorer.noaa.gov/explorations/05stepstones/logs/sep1/sep1.html>)
- 2005 France, S.C. “The Art of Choosing an ROV Dive Site,” Ocean Explorer Mission Log (<http://oceanexplorer.noaa.gov/explorations/05stepstones/logs/aug20/aug20.html>)
- 2004 France, S.C. “Black Corals,” Ocean Explorer Mission Log (<http://oceanexplorer.noaa.gov/explorations/04mountains/logs/may17/may17.html>)
- 2004 France, S.C. “The Hazards of Migration,” Ocean Explorer Mission Log (<http://oceanexplorer.noaa.gov/explorations/04mountains/logs/may10/may10.html>)
- 2004 France, S.C. “Seamount Coral Genetics,” Ocean Explorer Background Essay (<http://oceanexplorer.noaa.gov/explorations/04mountains/background/genetics/genetics.html>)

GRANTS FUNDED

- 2011-15 Continental Shelf Associates subcontract on BOEM grant, \$310,000;
“Exploration and Study of Coral Communities of mid-Atlantic Deep-Water Canyons”
- 2008-10 NOAA Office of Ocean Exploration, \$715,522; with coPIs L. Watling (U. Hawaii), P. Auster (U. Conn), T. Shank (WHOI), I. Babb (U. Conn), K. Sulak (USGS)
“Deep-Water Connections: Probing the Southern Limits of Distribution of North Atlantic Deep-Sea Coral Communities”
- 2007-08 BOR Enhancement, \$59,000; co-PI with Chistoserdov, Neigel, Fredericq, Klerks, Rick
“Molecular methods in oceanographic research at UL Lafayette”
- 2007 BoR-LINK, \$2000; coPI with M. Brugler (doctoral student)
“Passing the torch: Educating a new generation of scientists in black coral taxonomy”
- 2006-09 NSF Biological Oceanography, \$98,922
“Collaborative research: Stepping Stones Across the Atlantic: Co-evolution and

- dispersal of deep-water corals and their associates on NW Atlantic Seamounts”
- 2006-07 BORSF, \$86,000; co-PI with Chlan, Albert, Neigel
“Acquisition of Equipment to Enhance Molecular Evolution Research and Teaching”
- 2005-10 Harvey Mudd College subcontract on NSF AtoL grant, \$39,500
“Assembling the Tree of Life: An Integrative Approach to Investigating Cnidarian Phylogeny”
- 2005-06 University of Maine subcontract on NOAA National Undersea Research Center grant, \$8500
“Corals of NW Atlantic Canyons and Seamounts”
- 2005-06 University of Connecticut subcontract on NOAA Office of Ocean Exploration grant, \$49,105
“Deep Atlantic Stepping Stones: Connecting the New England Seamounts and Mid-Atlantic Ridge”
- 2003-05 University of Connecticut subcontract on NOAA Office of Ocean Exploration grant, \$25,596
“Mountains in the Sea: Exploring the New England Seamount Chain”
- 2002-05 South Carolina Biomedical Research Infrastructure Network (NIH)(one of 12 College of Charleston co-PIs, with Pam Riggs-Gelasco as PI.), \$9357
- 2001-03 University of Maine subcontract on NOAA National Undersea Research Program grant, \$17,162
“Genetic Analysis of Deep Water Octocorals off the NE coast of the U.S.”
- 1996 NOAA National Undersea Research Program at the University of Hawaii, \$3609 + submersible dives; coPI with L. Mullineaux, WHOI
“Dispersal and population genetics of seamount benthos”
- 1993-95 NSF Postdoctoral Research Fellowship in Marine Biotechnology, \$84,000
“Genetic population structure and gene flow in deep-sea invertebrates”

CONTRACTS

- 2017-18 NOAA Office of Ocean Exploration and Research, \$121,130
“Science Advisor to the NOAA Ship *Okeanos Explorer* Program”
- 2017 NOAA Office of Ocean Exploration and Research, \$59,230
“Central Pacific Exploration: EX1705: Cook Islands, Jarvis, and Kingman/Palmyra”
- 2015-16 NOAA Office of Ocean Exploration and Research, \$23,885
“CAPSTONE Expedition: Pacific Marine Monuments and Sanctuaries”
- 2015 NFWF, \$12,441
“Development of a Method for DNA-based Identification of Black Corals from Skeleton Fragments”
- 2014-15 NOAA Alaska Fisheries Science Center contract, \$5,000
“Development and Screening of RADseq loci for assessing parentage in *C. spiculifera* recruits”
- 2014-15 NOAA Office of Ocean Exploration and Research, \$19,614
“Our Deepwater Backyard: Exploring Atlantic Canyons and Seamounts 2014”
- 2011 Industrial Economics Incorporated subcontract for NOAA NRDA process, \$20,500
“Mississippi Canyon 252 Incident Deep-Water Coral Communities,”
- 2011-12 Virginia Aquarium contract, \$8,000, 6 months (with Dr. Patricia Rosel, NOAA

- Fisheries)
 “DNA sequencing of stranded dolphin samples”
 2008 Continental Shelf Associates subcontract on MMS grant, \$4570; coPI with M. Brugler (doctoral student)
 “Mitochondrial genome studies of the black coral *Leiopathes*”
 2007-08 NOAA National Marine Fisheries Service contract, \$14,050
 “Development and Screening of Microsatellite Loci in Alaskan Fjord *Primnoa*”
 2005 NOAA National Marine Fisheries Service contract, \$10,000
 “Genetic Analysis of Aleutian Island Octocorals”
 2004-05 Hawaii Department of Land and Natural Resources subcontract on NOAA Hawaii Undersea Research Lab grant, \$9990
 "An Investigation of the Current Status of the Hawaiian Black Coral Fishery using Historical and New Perspectives"
 2004 NOAA National Marine Fisheries Service contract, \$12,500
 “Genetic Analysis of Aleutian Island Octocorals”

AWARDS

- 2013 Ray P. Authement College of Sciences Outstanding Professor (UL Lafayette)
 1992-93 Woods Hole Oceanographic Institution Postdoctoral Fellowship
 1986 Summer Undergraduate Research Fellow, Woods Hole Oceanographic Institution (Dr. J. Frederick Grassle)
 1986 Canadian International Paper Co. Prize for Biological Sciences, Concordia University
 1986 Francois Chabot Memorial Award for Ecology, Concordia University
 1985-86 NSERC Summer Undergraduate Research Fellow, Concordia University (with Dr. Edward Maly)
 1984 NSERC/University of Ottawa Summer Undergraduate Research Fellow (with Dr. Paul Keddy)

PROFESSIONAL ACTIVITIES

- 2016 6th International Symposium on Deep-Sea Coral. Boston, MA, 12-16 Sept 2016. Keynote presentation, “Further observations on branching in bamboo coral colonies, with implications for taxonomy and *in situ* identifications” (co-authored with E. Heestand Saucier, L. Watling)
 2016 6th International Symposium on Deep-Sea Coral. Boston, MA, 12-16 Sept 2016. Oral presentation, “Phylogenetic analysis of the keratoisidin bamboo corals with a proposal to erect three subfamilies based on morphological characters and mitochondrial genome arrangement” (co-author with E. Heestand Saucier*, L. Watling and presented by *)
 2016 6th International Symposium on Deep-Sea Coral. Boston, MA, 12-16 Sept 2016. Poster presentation, “Systematics of the deep-sea bamboo coral genus *Acanella*” (co-authored and presented by E. Heestand Saucier)
 2014 Evolution 2014, Raleigh, North Carolina, 20-24 June 2014. Oral presentation, “Convergence of skeletal architecture: Assessing the monophyly of the nodes and internodes of bamboo corals (Cnidaria, Octocorallia, Isididae)” (co-authored by E. Heestand* L. Watling & S.C. France and presented by *)
 2014 Evolution 2014, Raleigh, North Carolina, 20-24 June 2014. Oral presentation,

- “Determining asexual versus sexual propagation in the octocoral *Paramuricea* using RAD sequencing” (co-authored by R.W. Clostio* & S.C. France and presented by *)
- 2012 5th International Symposium on Deep-Sea Coral. Amsterdam, The Netherlands, 1-7 April 2012. Poster presentation, “Looks can be deceiving: Assessing the monophyly of bamboo corals” (co-authored by E. Heestand* L. Watling & S.C. France and presented by *)
- 2012 5th International Symposium on Deep-Sea Coral. Amsterdam, The Netherlands, 1-7 April 2012. Poster presentation, “A global approach to the study of endemism on seamounts: the case of *Chrysogorgia*” (co-authored by E Pante, SC France & S. Samadi)
- 2012 5th International Symposium on Deep-Sea Coral. Amsterdam, The Netherlands, 1-7 April 2012. Poster presentation, “Is *Isidoides* a bamboo coral? Evidence from DNA phylogenies, mitochondrial gene order and morphology” (co-authored by E. Pante, E. Heestand*, S.C. France and presented by*)
- 2012 5th International Symposium on Deep-Sea Coral. Amsterdam, The Netherlands, 1-7 April 2012. Oral presentation, “When is a bamboo coral not a bamboo coral? A revision of the octocoral family Isididae” (co-authored by L. Watling*, SC France, S. Rowley, E. Heestand and presented by *)
- 2011 5th International Biogeography Conference, Heraklion, Crete, Greece, January 2011. Poster presentation, “Endemism of deep-sea corals on NW Atlantic and SW Pacific seamounts” (co-authored by E Pante*, SC France, S. Samadi and presented by *)
- 2011 Deep Metazoan Phylogeny 2011, Munich, Germany, October 2011. Poster presentation, “A one-two punch: Anthozoans are characterized by extremely low rates of mitochondrial DNA sequence evolution and variable nuclear markers remain elusive” (co-authored by M Brugler*, A Grajales, SC France, D Opresko, E Rodriguez and presented by *)
- 2010 12th International Deep-Sea Biology Symposium, Reykjavik, Iceland, June 2010. Oral presentation, “Atlantic-Pacific Relationships of Deep-Sea Octocorals” (co-authored by L. Watling)
- 2010 12th International Deep-Sea Biology Symposium, Reykjavik, Iceland, June 2010. Poster presentation, “Deep-water octocorals of the Bahamas bathyal slope (Western North Atlantic) and their relationship to offshore seamount assemblages” (co-authored by L. Watling)
- 2010 12th International Deep-Sea Biology Symposium, Reykjavik, Iceland, June 2010. Oral presentation, “Insights into the evolution and biogeography of chrysogorgiid corals” (co-authored and presented by E. Pante)
- 2010 12th International Deep-Sea Biology Symposium, Reykjavik, Iceland, June 2010. Poster presentation, “Biogeography of the pan-distributed deep-sea coral genus *Chrysogorgia*” (co-authored and presented by E. Pante)
- 2010 SICB 2010 Meeting, Seattle WA, Jan 2010. Oral presentation, “On the evolution of deep-sea octocorals and antipatharians: Patterns revealed from molecular phylogenies” (co-authored by E. Pante, M. R. Brugler & J. van der Ham)
- 2008 4th International Symposium on Deep-Sea Corals, Victoria University, Wellington, New Zealand, December 2008. Oral Presentation, "On the Origin of Deep-Sea Octocorals: Patterns Revealed From Molecular Phylogenies" (co-authored by E. Pante & J. van der Ham)
- 2008 4th International Symposium on Deep-Sea Corals, Victoria University, Wellington, New

- Zealand, December 2008. Poster Presentation, "The first molecular phylogenetic reconstruction of the Chrysogorgiidae (Anthozoa: Octocorallia) questions its monophyly" (co-author with E. Pante)
- 2008 4th International Symposium on Deep-Sea Corals, Victoria University, Wellington, New Zealand, December 2008. Poster Presentation, "Mitochondrial genome studies of the black coral family Leiopathidae Haeckel, 1896" (co-author with M. Brugler & D. Opresko)
- 2008 4th International Symposium on Deep-Sea Corals, Victoria University, Wellington, New Zealand, December 2008. Poster Presentation, "Deep-sea corals show no evidence of endemism on northwestern Atlantic seamounts" (co-author with J. Thoma, E. Pante & M. Brugler)
- 2008 Third Annual Cnidarian Tree of Life Workshop. La Paz, Baja California, Mexico, July 2008. Oral presentation, "Deep-sea octocorals, cytB variation and upcoming cruise opportunities."
- 2007 Second Annual Cnidarian Tree of Life Workshop. Virgin Islands Environmental Resource Station, St. John, USVI, July 2007. Oral presentation, "Deep-sea octocorals and black corals - an update."
- 2006 11th International Deep-Sea Biology Symposium, Southampton, U.K., July 2006. Oral presentation, "Observations of Deep-water Coral Communities on the New England and Corner Rise Seamount Chains (Western North Atlantic)" (co-authored by Watling, L. E., Auster, P. J., Babb, I. G., Moore, J. A., Mullineaux, L. S., Adkins, J. F., Shank, T. M., and Waller, R. G)
- 2006 11th International Deep-Sea Biology Symposium, Southampton, U.K., July 2006. Poster presentation, "Not all deep-sea whips are created equal: Genetic analysis of bamboo corals (Octocorallia, Isididae)."
- 2006 11th International Deep-Sea Biology Symposium, Southampton, U.K., July 2006. Poster presentation, "Distribution and abundance of black corals (Antipatharia) in relation to depth and topography on the New England Seamounts (Northwest Atlantic)." (co-authored by M.R. Brugler)
- 2006 Society for the Study of Evolution Annual Meeting, Stony Brook, New York, June 2006. Poster presentation, "Deep-sea bamboo corals break rank: Mitochondrial gene order is not conserved among octocorals (Cnidaria, Anthozoa, Octocorallia, Isididae)." (co-authored with M.R. Brugler)
- 2006 Society for the Study of Evolution Annual Meeting, Stony Brook, New York, June 2006. Oral presentation, "Ecological niche requirements trump major oceanographic processes in shaping phylogeographic structure of direct developing intertidal invertebrates." (co-authored and presented by M.E. Jones)
- 2006 Society for the Study of Evolution Annual Meeting, Stony Brook, New York, June 2006. Oral presentation, "Have We Discovered a "Fountain of Variation?" An Analysis of Non-Coding Regions within the Black Coral (Cnidaria: Anthozoa) Mitochondrial Genome." (co-authored and presented by M.R. Brugler)
- 2005 3rd International Symposium on Deep-Sea Corals, Rosenstiel School of Marine and Atmospheric Science, Miami, FL, November 2005. Oral Presentation, "Genetic Analysis of Bamboo Corals: does lack of branching distinguish *Lepidisis* from *Keratoisis*?"
- 2005 3rd International Symposium on Deep-Sea Corals, Rosenstiel School of Marine and Atmospheric Science, Miami, FL, November 2005. Poster Presentation, "Distribution and

- Abundance of Black Corals (Antipatharia) in Relation to Depth and Topography on the New England Seamounts (Northeast Atlantic)" (co-authored by M.R. Brugler)
- 2005 3rd International Symposium on Deep-Sea Corals, Rosenstiel School of Marine and Atmospheric Science, Miami, FL, November 2005. Oral Presentation, "Low Sequence Variability within Anthozoan Mitochondrial Genomes: Are Antipatharian Noncoding Regions the Exception?" (co-authored and presented by M.R. Brugler)
- 2003 10th Deep-Sea Biology Symposium, Oregon Institute of Marine Biology, Coos Bay, Oregon, August 2003. Oral Presentation, "Patterns of mitochondrial DNA sequence variation in deep-sea octocorals."
- 2003 10th Deep-Sea Biology Symposium, Oregon Institute of Marine Biology, Coos Bay, Oregon, August 2003. Poster Presentation, "Do antipatharians belong in the subclass Ceriantipatharia?: Inferring phylogeny from mitochondrial gene order of a deep-sea black coral." (co-authored and presented by M.R. Brugler)
- 2002 Annual SEEPAGE (Southeast Ecology and Population Genetics Group) meeting, Duke University Marine Lab, Beaufort, NC, September 2002. Oral Presentation, "Analyses of mitochondrial genes of deep-sea corals: Low mutation rates and conserved ORF provide evidence for a functional DNA mismatch repair gene." (co-authored by A.B. LePard, M.C. Barks, L.L. Hoover & M.R. Brugler)
- 2002 Annual Benthic Ecology Meeting, Orlando, Florida, March 2002. Poster Presentation (co-authored and presented by A.B. LePard), "Analysis of genetic variation in mtMSH in the genus *Leptogorgia* (Cnidaria: Octocorallia) and implications for studying population structure."
- 2002 Annual Benthic Ecology Meeting, Orlando, Florida, March 2002. Poster Presentation (co-authored and presented by), "The effects of maternal care on dispersal and genetic population structure of western north Atlantic haustoriid amphipods."
- 2001 Annual Meeting of the Society for the Study of Evolution, University of Tennessee, June 2001. Poster Presentation, "Analysis of sequence variation in a DNA mismatch repair gene (mtMSH) apparently unique among metazoan mitochondrial genomes to the octocorals (Cnidaria, Anthozoa)." (co-authored by L.L. Hoover)
- 2000 First International Symposium on Deep-Sea Corals, Dalhousie University, Halifax, Nova Scotia, Canada, July 2000. Oral Presentation, "Genetic Diversity in Deep-Seamount Octocorals." (co-authored by L.L. Hoover)
- 2000 9th Deep-Sea Biology Symposium, National University of Ireland, Galway, Ireland, June 2000. Oral Presentation, "Speciation at hydrothermal vents: using genes to trace the origin and spread of Eastern Pacific vent-endemic amphipods."
- 2000 Deep-Sea Biodiversity; Spatiotemporal Dynamics and Conservation Strategies Working Group, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, California.
- 1999 Annual Meeting of the Society for the Study of Evolution, University of Wisconsin, June 1999. Oral Presentation, "Speciation in the deep sea: tracing the origin and spread of hydrothermal vent-endemic amphipods."
- 1997 Annual Meeting of the Society for the Study of Evolution, University of Colorado, June 1997. Oral Presentation, "Using introns to measure intraspecific genetic structure: distinguishing loci, alleles, and polymerase errors"
- 1996 The Crustacean Society Summer Meeting, University of San Diego, July 1996. Oral Presentation, "DNA sequence analysis of formalin-fixed, deep-sea amphipods"

- 1995 Annual Meeting of the Society for the Study of Evolution, McGill University, July 1995. Oral Presentation, "Mitochondrial 16S rRNA sequence divergence among deep-sea amphipod populations: Geographic and bathymetric patterns of populations structure"
- 1995 Fourth Scientific Meeting of The Oceanography Society, Newport, Rhode Island, April 1995. Poster presentation, "Genetic divergence and speciation in the deep sea: Horizontal versus vertical gene flow"
- 1994 Seventh Deep-Sea Biology Symposium, IMBC, Crete, Greece, September, 1994. Oral Presentation, "Mitochondrial 16S rRNA sequence variation in populations of the scavenging deep-sea amphipod *Eurythenes gryllus* (Crustacea, Lysianassoidea) from the North Atlantic and North Pacific Oceans"
- 1994 Annual Meeting of the Society for the Study of Evolution, University of Georgia, June 1994. Poster Presentation, "Mitochondrial 16s rRNA of deep-sea corals (Cnidaria, Anthozoa) exhibits length variation among species but little sequence variation within species"
- 1994 NSF RIDGE Workshop, Dispersal, gene flow and larval biology at deep-sea hydrothermal vents. Fallen Leaf Lake, California, May 1994.
- 1991 Annual Meeting of the American Society of Zoologists, Atlanta, Georgia, December 1991. Poster Presentation, "Geographic Variation Among Isolated Populations of the Deep-Sea Amphipod *Hirondellea gigas*"
- 1991 Sixth Deep-Sea Biology Symposium, Copenhagen, Denmark, July, 1991. Oral Presentation, "Genetic Distance Between Populations of the Hydrothermal Vent Endemic Amphipod *Ventiella sulfuris*"
- 1988 Fifth Deep-Sea Biology Symposium, Brest, France, June, 1988. Oral Presentation, "Deep-Sea Hard Substrate Megafauna Along the East Pacific Rise"
- 1987 American Geophysical Union Fall meeting, San Francisco, California, December, 1987. Oral Presentation, "Hydrothermal Vent Communities of the Marianas Back-Arc Basin"
- 1986 American Society of Limnology and Oceanography meetings, Kingston, Rhode Island, June, 1986. Oral Presentation, "Survival of, and reproduction in, diaptomid copepods transferred to alien lake environments"

Co-authored Presentations by colleagues (other than graduate students)

- 2016 AGU Fall Meeting. San Francisco, CA 12-16 Dec 2016. Oral presentation, "The Megafaunal Communities of Mn-crusts Guyots in the Central and Western Pacific" (co-author with C. Kelley*, M. Geringer, S. Pomponi, D. Amon, B. Mundy, T. Molodtsova, A. Matsumoto L. Watling and presented by *)
- 2016 6th International Symposium on Deep-Sea Coral. Boston, MA, 12-16 Sept 2016. Oral presentation, "Resolving the Keratoisids: Adding Morphology to the Molecular Tree" (co-author with L. Watling*, A. Lapointe, E. Heestand Saucier, and presented by *)
- 2016 6th International Symposium on Deep-Sea Coral. Boston, MA, 12-16 Sept 2016. Oral presentation, "Rift zone ridge crests can provide topography and substrate conducive for the development of high-density deep-sea coral and sponge communities" (co-author with C. Kelley*, D. Wagner, A. Baco, L. Watling, T. Molodtsova, J.R. Smith, and presented by *)
- 2014 2nd INCISE Symposium, Edinburgh, UK, 29 September-1 October 2014. Poster presentation by S. Viada; "Atlantic Canyons – Pathways to the Abyss: a multidisciplinary study of submarine canyons off the U.S. middle Atlantic coast." (co-authors S. Ross, S.

- Brooke, E. Baird, A. Davies, G. Duineveld, S. France, A. Howard, R. Mather, F. Mienis, M. Rhode, B. Rourke, C. Robertson & C. Young)
- 2014 2nd INCISE Symposium, Edinburgh, UK, 29 September-1 October 2014 Oral presentation by M.S. Nizinski; "Exploration of submarine canyons off the northeast United States reveals dynamic habitats and diverse ecosystems." (co-authors A. Quattrini, JD Chaytor, A. Demopoulos, SC France, T. Heyl, JA Moore, EB Roark, TM Shank)
- 2013 Evolution 2013, Snowbird, Utah, 24 June 2013. Poster presentation, "Evaluation of novel nuclear introns within the deep-sea black coral *Stauropathes arctica* (Cnidaria: Anthozoa: Hexacorallia: Antipatharia)" (co-authored by MR Brugler*, N Bahadur, A Tricoche, DM Opresko, E Rodriguez, J Drewery, SC France, V Wareham and presented by *)
- 2010 SICB 2010 Meeting, Seattle WA, Jan. 6, 2010. Oral presentation by CS McFadden, "Molecular Phylogenetic Insights into Octocoral Evolution." (co-authors CS McFadden, V Brisson, SC France)
- 2010 SICB 2010 Meeting, Seattle WA, Jan. 6, 2010. Oral presentation by P Cartwright, "Investigating cnidarian phylogeny using rDNA secondary structure models." (co-authors P Cartwright, MS Barbeitos, AG Collins, M Daly, SC France, CS McFadden)
- 2008 Southeastern Society of Parasitologists, Greenville SC April 2008. Oral presentation by I. de Buron, "The philometrids of the southern flounder: An update." (co-authors I. de Buron, S.C. France, W.A. Roumillat, L.C. Tsoi, V.A. Connors, T. Bryan)
- 2007 7th International Symposium on Fish Parasites. Viterbo, Italy, Sept 2007. Oral presentation by I. de Buron, "Genetic clades of philometrids linked to microhabitat specificity: a case in the southern flounder, *Paralichthys lethostigma*" (co-authors I. de Buron, S.C. France, W.A. Roumillat).
- 2007 7th International Symposium on Fish Parasites. Viterbo, Italy, Sept 2007. Oral presentation by I. de Buron, "Discrepancies between the population dynamics of four clades of two species of philometrid in the Southern Flounder, *Paralichthys lethostigma*: support for the presence of four distinct species in the host" (co-authors I. de Buron, L.C. Tsoi, S.C. France, W.A. Roumillat, V.A. Connors, T. Bryan,).
- 2004 Geological Society of America Annual Meeting, Denver, CO, November 2004. Oral Presentation by Jon Moore, "Deepwater hard substrate communities on seamounts in the western North Atlantic" (co-authors Jon Moore, Les Watling, Scott France, Lauren Mullineaux, Jess Adkins, Peter Auster, Ivar Babb, Susan Richardson)
- 2003 7th International Conference on Coelenterate Biology, University of Kansas, July 2003. Oral Presentation by Catherine McFadden, "Molecular systematics of the octocorallian order Alcyonacea" (co-authors Catherine McFadden, Scott France, Juan Sanchez)
- 2003 Southeastern Society of Parasitologists, University of South Alabama, Mobile, Alabama. Oral Presentation by Isaure De Buron, "Sequencing of the mitochondrial COI gene in several species of acanthocephalans and an application to the teaching laboratory" (co-authors Isaure De Buron, Eric Pante, Amelia Viricel, Scott France)
- 2002 10th International Congress of Parasitology, Vancouver, Canada, August 2002. Oral Presentation by Isaure De Buron, "DNA sequencing of acanthocephalan mitochondrial COI genes" (co-authors Scott France, Amelia Viricel, Eric Pante, Isaure de Buron)

INVITED SEMINARS

- 2012 5th International Symposium on Deep-Sea Coral. Amsterdam, The Netherlands, Keynote

- presentation, “New insights into the diversity of deep-sea corals”
- 2011 NOAA OER Teacher Workshop “Learning Ocean Science Through Ocean Exploration!”
Dauphin Island, AL
- 2010 Grice Marine Laboratory, College of Charleston, Charleston, SC
- 2010 Symposium: Assembling the Cnidarian Tree of Life, SICB 2010 Meeting, Seattle WA.
“On the evolution of deep-sea octocorals and antipatharians: Patterns revealed from
molecular phylogenies.” (co-authors SC France, E Pante, MR Brugler, JL van der Ham)
- 2009 University of New Orleans, New Orleans, LA
- 2009 LUMCON, Cocodrie, LA
- 2008 New Mexico State University, Las Cruces, NM
- 2007 Museum National d’Histoire Naturelle, Paris, France
- 2006 LSU Department of Oceanography, Baton Rouge, LA
- 2005 LSU Museum of Natural Science, Baton Rouge, LA
- 2003 Savannah State University, Savannah, GA
- 2000 Deep-Sea Biology course, Scripps Institution of Oceanography, San Diego, CA
- 1994 University of British Columbia, Vancouver, B.C., Canada
- 1993 University of New Hampshire, Durham, NH
- 1992 Natural History Museum of Los Angeles County, Los Angeles, CA

Public Presentations

- 2018 “Deep-Sea Exploration in the Gulf of Mexico”, Rotary Club of Lafayette, Lafayette Oil
Center
- 2017 “Exploring the Unknown Deep Sea”, Science on the Bayou, Lafayette Science Museum
- 2017 “Deep-Sea Biodiversity and Exploration”, Kiwanis Club of New Iberia
- 2016 “Studying Deep-Sea Coral in the New Era of Telepresence Technology,” Ray P.
Authement College of Sciences Interdisciplinary Monthly Meeting, UL Lafayette
- 2014 “The Importance of the ‘Beauty Shot’ in Science,” SMART Festival, Lafayette, LA
- 2010 “Corals in the Abyss: A Virtual Tour of Deep-sea Coral Communities,” Sew-What!
community organization forum, Portal, AZ

TEACHING EXPERIENCE

Since 1996 I have taught the following courses:

- ADVANCED INVERTEBRATE ZOOLOGY (Graduate Level; UL Lafayette)
- BIOLOGY OF CNIDARIA (Senior/Graduate Level; UL Lafayette)
- EVOLUTION, ECOLOGY AND BIOLOGY OF ORGANISMS (Freshman level; College of Charleston)
- ECOLOGY OF MARINE ORGANISMS (Graduate Level; College of Charleston)
- EVOLUTIONARY BIOLOGY (Junior Level; Bowdoin College)
- LIMNOLOGY AND OCEANOGRAPHY (Senior/Graduate Level; UL Lafayette)
- MARINE ECOLOGY (Graduate Level; UL Lafayette)
- MARINE INVERTEBRATE ZOOLOGY (Graduate Level; College of Charleston)
- MOLECULAR EVOLUTION AND PHYLOGENETICS (Graduate Level; College of Charleston)
- PRINCIPLES OF ECOLOGY (Junior Level; UL Lafayette)
- SENIOR SEMINAR (Senior Level; UL Lafayette)
- SURVEY OF INVERTEBRATE ANIMALS (Junior Level; UL Lafayette)

Graduate Seminars in DEEP-SEA BIOLOGY, OCEAN EXPLORATION and MARINE SCIENCE

PROFESSIONAL SERVICE

Reviewer for:

- manuscripts: *Biological Bulletin*, *BMC Evolutionary Biology*, *BMC Genomics*, *Bulletin of Marine Science*, *Coral Reefs*, *Deep-Sea Research*, *Ecography*, *Evolution*, *Folia Parasitologica*, *Helgoland Marine Research*, *Hydrobiologia*, *Journal of Heredity*, *Journal of Molecular Evolution*, *Limnology and Oceanography*, *Marine Biology*, *Marine Biology Research*, *Marine Ecology*, *Marine Ecology Progress Series*, *Molecular Phylogenetics and Evolution*, *PeerJ*, *Proceedings of the Biological Society of Washington*, *ZooKeys*
- Research proposals: *California Sea Grant*, *Hawaii Sea Grant*, *Natural Environment Research Council (UK)*, *National Geographic Society*, *NOAA National Undersea Research Program (NURP)*, *NSF*

Panelist, *Biological Oceanography*, National Science Foundation, 2006

Invited participant Northeast Deep Sea Coral Research Needs and Priorities Workshop (James J Howard Marine Science Laboratory, Sandy Hook, NJ, Aug 2011)

Invited workshop participant and science plan co-author, TRACES (Trans-Atlantic Coral Ecosystem Study) Science Plan Committee (Workshops: University of North Carolina, Wilmington, Feb 2008 and Woods Hole Oceanographic Institution, October 2008)

Invited presenter, NIWA Deep-Sea Coral Workshop (NIWA - National Institute of Water & Atmospheric Research, Wellington, New Zealand, 8 Dec 2008)

UNIVERSITY SERVICE, UL LAFAYETTE

Member, Graduate School Fellowships Committee (2017-present)

Admissions Coordinator, Graduate Program in Biology (2012-Present)

Member of the UL Task Force on Graduate Education Governance (2013)

Member of Graduate Council (2012-2015)

Member, Department of Biology Graduate Studies Committee (2012-Present)

Member, Department of Biology Executive Committee (2009-2013; 2016 - present)

Chair, Department of Biology Advising Committee (2009-present)

Coordinator, Department of Biology Seminar Series (2008-2012)

Chair, Subcommittee on Campus Sustainability Recycling Program (2009)

Senator, UL Lafayette Faculty Senate (2006-2009)

RESEARCH CRUISE EXPERIENCE

2012 Participating scientist, *NOAA Ship Nancy Foster*, *ROV Kraken II*; sampling of deep-sea corals; mid-Atlantic Canyons

2009 Chief Scientist, *R/V F.G. Walton Smith*/ *ROV Global Explorer*; Bahamas Deep-Sea Corals; sampling of deep-sea corals; Bahamas

2005 Co-PI, *R/V Atlantis* / *HOV ALVIN*; CanyBal expedition; direct sampling of deep-sea corals; Georges Bank canyons and New England Seamount Chain (1 dive)

2005 Co-PI, *R/V Ronald Brown* / *ROV Hercules*; Deep Atlantic Stepping Stones; sampling of deep-sea corals; New England Seamounts

2004 Participating scientist, *R/V Roger Revelle* / *ROV Jason II*; sampling of deep-sea corals; Aleutian Ridge

2004 Co-PI, *R/V Ronald Brown* / *ROV Hercules*; Mountains in the Sea II; sampling of deep-sea

- corals; New England Seamounts
- 2003 Co-PI, *R/V Atlantis / HOV ALVIN*; Mountains in the Sea expedition; direct sampling of deep-sea corals; New England Seamount Chain (2 dives)
- 2002 Participating scientist, *R/V Connecticut / ROV KRAKEN*; sampling of deep-sea corals; Gulf of Maine
- 2001 Participating scientist, *R/V Atlantis / HOV ALVIN*; Deep East Leg I; direct sampling of deep-sea corals; Georges Bank canyons (1 dive)
- 1996 Chief Scientist, *R/V Kaimikai-o-Kanaloa / HOV PISCES V*; direct sampling of deep-sea corals; Hawaiian Island slopes (6 dives)
- 1993 Chief Scientist, *R/V Kila / HOV PISCES V*; direct sampling of seamount benthos; Cross, Bishop, and Pensacola Seamounts (4 dives)
- 1990 Participating scientist, *R/V New Horizon*; RUM (Remote Underwater Manipulator) test cruise; San Diego Trough
- 1990 Participating scientist, *R/V Robert Gordon Sproul*; free-vehicle trapping of bathyal amphipods and epibenthic sled trawling; California Borderland Basins
- 1990 Participating scientist, *R/V Coral Reef II*; free-vehicle trapping of bathyal amphipods and midwater trawling; Tongue of the Ocean, Bahamas
- 1989 Chief Scientist, *R/V Robert Gordon Sproul*; free-vehicle trapping of bathyal amphipods, otter trawling, box-coring, and camera sled trawling; California Borderland Basins
- 1988 Participating scientist, *R/V Atlantis II / HOV ALVIN*; free-vehicle trapping and direct sampling, using submersible, of bathyal amphipods; Galapagos Rift Hydrothermal Vents (2 dives)
- 1988 Participating scientist, *R/V Atlantis II*; free-vehicle trapping of bathyal amphipods; Santa Catalina Basin
- 1987 Participating scientist, *R/V Robert Gordon Sproul*; free-vehicle trapping of bathyal amphipods; California Borderland Basins
- 1987 Participating scientist, *R/V Atlantis II / HOV ALVIN* biological sampling and photographic analysis; Marianas Back-Arc Basin Hydrothermal Vents (1 dive)

TELEPRESENCE-ENABLED RESEARCH CRUISE EXPERIENCE

- 2018 Science advisor and Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Gulf of Mexico 2018 EX1803; activities included pre-cruise and daily dive planning, live video commentary, video logging via online chatroom
- 2017 Science advisor and Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Gulf of Mexico EX1711; activities included pre-cruise and daily dive planning, live video commentary, video logging via online chatroom
- 2017 Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Deep-Sea Symphony: Exploring the Musicians Seamounts EX1708; activities included pre-cruise and daily dive planning, live video commentary, video logging via online chatroom
- 2017 Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Laulima O Ka Moana: Exploring Deep Monument Waters Around Johnston Atoll EX1706; activities included pre-cruise dive planning, live video commentary, writing web log, video logging via online chatroom
- 2017 Science Lead, *NOAA Ship Okeanos Explorer*, Mountains in the Deep: Exploring the Central Pacific Basin EX1705; activities included pre-dive planning and post-dive debriefing, writing dive summaries and daily dive plans, web logs, live video

- commentary, liason between shore-based participating scientists and ship-based ROV operations
- 2017 Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Discovering the Deep: Exploring Remote Pacific Marine Protected Areas EX1703; activities included pre-cruise dive planning, live video commentary, video logging via online chatroom
- 2016 Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Deepwater Wonders of Wake: Exploring the Pacific Remote Islands Marine National Monument EX1606; activities included pre-cruise dive planning, live video commentary, writing web log, post-dive debriefing, video logging via online chatroom
- 2016 Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Deepwater Exploration of the Marianas EX1605; activities included pre-cruise dive planning, live video commentary, writing web log and background essay, post-dive debriefing, video logging via online chatroom
- 2015 Science Lead, *NOAA Ship Okeanos Explorer*, Hohonu Moana: Exploring the Deep Waters Off Hawai'i EX1504 L4; activities included pre-dive planning and post-dive debriefing, writing dive summaries and daily dive plans, web logs, live video commentary, liason between shore-based participating scientists and ship-based ROV operations
- 2015 Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, Hohonu Moana: Exploring the Deep Waters Off Hawai'i EX1504 L2 & L3; activities included pre-cruise dive planning, live video commentary, post-dive debriefing, video logging via online chatroom
- 2015 Shore-based participating scientist, *NOAA Ship Okeanos Explorer*, *ROV Deep Discoverer*, Océano Profundo 2015: Exploring Puerto Rico's Seamounts, Trenches, and Troughs EX1501; activities included live video commentary, post-dive debriefing, video logging via online chatroom
- 2014 Science Lead, *NOAA Ship Okeanos Explorer*, *ROV Deep Discoverer*, Atlantic Canyons and Seamounts Expedition EX1403; activities included pre-dive planning and post-dive debriefing, writing dive summaries and daily dive plans, live video commentary, liason between shore-based participating scientists and ship-based ROV operations
- 2014 Shore-based participating scientist, Gulf of Mexico Expedition EX1402, *NOAA Ship Okeanos Explorer*; activities included live video commentary, post-dive debriefing, video logging via online chatroom
- 2013 Shore-based Doctor on Call, *E/V Nautilus* Exploration Program NA035: GREATER ANTILLES, NA037: MONTSERRAT & DOMINICA, NA039: KICK'EM JENNY VOLCANO; activities included video logging via online chatroom
- 2013 Shore-based participating scientist, Northeast U.S. Canyons Expedition EX1304, *NOAA Ship Okeanos Explorer*; activities included pre-dive planning and post-dive debriefing, live video commentary, video logging via online chatroom

GRADUATE STUDENTS ADVISED

Major Advisor:

Completed

Esprit Heestand Saucier (M.S. Ohio State University) Ph.D. UL Lafayette 2016
Phylogenetic Studies of the deep-sea bamboo corals (Octocorallia: Isididae:
Keratoisidinae)

- Jana Thoma (M.S. University of Southern Mississippi) Ph.D. UL Lafayette 2013
Phylogenetic systematics and biogeographic patterns of select representatives of the
Holaxonia (Cnidaria, Anthozoa, Octocorallia)
- Eric Pante (M.S. College of Charleston) Ph.D. UL Lafayette 2011 Biogeography and
evolution of chrysogorgiid corals (Faculty at Université La Rochelle)
- Mercer Brugler (M.S. College of Charleston) Ph.D. UL Lafayette 2010 Molecular
evolution in black corals (Cnidaria: Anthozoa: Hexacorallia): implications for
antipatharian systematics (Researcher at AMNH)
- Elizabeth Jones (Sbrocco) (B.S. Duke University) M.S. 2005 (College of Charleston)
Comparative Phylogeography, Population Structure, and Extended Maternal Care in
Neohastorius schmitzi, *N. biarticulatus*, and *Hastorius canadensis*: Three
Sympatric Intertidal Amphipods from the Western North Atlantic (Postdoc at
National Center for Evolutionary Synthesis)
- Mercer Brugler (B.S. University of Miami) M.S. 2004 (College of Charleston) The
complete mitochondrial DNA sequence of an antipatharian (black coral) and six
non-contiguous mitochondrial genes of the ceriantharian (tube anemone):
implications for cnidarian phylogeny (Researcher at AMNH)
- Andrea LePard (Daniels) (B.S. University of Rhode Island) M.S. 2003 (College of
Charleston) Analysis of variation in the mitochondrial encoded *msh1* in the genus
Leptogorgia (Cnidaria: Octocorallia) and implications for population and
systematics studies (High school teacher, Charleston, SC)

In progress

- Jaymes Awbrey (M.S. California State University, Los Angeles) Dissertation topic:
Studies of the phylogenetics, systematics, and biogeography of deep-sea
acanthogorgiid corals (Cnidaria: Anthozoa: Octocorallia: Alcyonacea:
Acanthogorgiidae)
- Upasana Ganguly (B.S., M.S. University of Calcutta) Dissertation topic: Evolution of
Deep-sea Sea Pens
- Abby Pratt (B.S. Humboldt State University) Masters Thesis topic: Deep-water
cephalopods
- Lauren Walling (B.S. University of Illinois Urbana-Champaign) Masters Thesis topic:
Epigenetics of octocorals
- Matthew Winter (B.S. University of New Mexico) Dissertation topic:

Committee member:

- completed 15 Ph.D. and 19 M.S.; In progress 7 Ph.D. and 1 M.S.

POST DOCTORAL ASSOCIATES

- Rachel W. Clostio (Ph.D. Univ. of New Orleans) Molecular genetic analysis of mid-
Atlantic Canyons octocorals (2012-2015)
- Joris van der Ham (Ph.D. Univ. of Louisiana) Molecular systematics of primnoid
octocorals (2008-2009; Most recent known position: George Mason University -
Adjunct Professor)

UNDERGRADUATE STUDENTS ADVISED

Independent research projects: at UL – John Douzat, Lauren Duhon, Rikki Lail, Amber

Lauchner, Alyssa Marcel, Lance Renoux, Claire Steward; at the College of Charleston
– Stephen Reuland, Loretta Hoover, Joseph Mingoia, Megan Barkes, Eric Pante,
Amelia Viricel

ACADEMIC ADVISORS:

Ph.D.: Robert R. Hessler (UC San Diego (SIO))

Postdoctoral: Lauren S. Mullineaux (Woods Hole Oceanographic Institution)
Thomas D. Kocher (University of New Hampshire)
Stephen R. Palumbi (Harvard University)