

Joshua D. Voss, Ph.D. Curriculum Vitae

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Joshua Voss is an Assistant Research Professor in the fields of coral reef ecology and marine molecular ecology. His primary areas of focus include shallow and mesophotic coral reef characterization and ecology, coral health, and the environmental factors that influence coral degradation worldwide. His research integrates experimental and field monitoring approaches with advanced molecular techniques to understand the short- and long-term effects of stress and disease on coral physiology and ecology. In addition, he has developed and adapted molecular techniques to investigate the roles of symbiotic microbes in coral health and ecology. He has contributed 12 peer-reviewed manuscript publications, delivered 32 first author conference presentations, has completed over 1300 scientific dives, and has lead more than 30 scientific cruises and expeditions primarily in the Bahamas, Florida Keys, and Gulf of Mexico with additional investigations in Panama, Curacao, Bonaire, Dominica, USVI, and St. Eustatius.

Education

Florida International University, Miami, FL

* PhD in Biological Sciences, 2006

* Dissertation: *Coral disease dynamics and environmental drivers in the Northern Florida Keys and Lee Stocking Island, Bahamas*, advisor Dr. Laurie Richardson

Elon University, Elon, NC

* Bachelor of Science, Magna Cum Laude, 2001

* Major: Biology, Minors: Chemistry, Philosophy, and Sociology

* Completed Honors and Sciences Fellows Programs

* Study Abroad: Tropical Field Biology in Belize, 2000

* Senior Thesis: *Artificial reef design and ecological impacts: stories of success and failure*

Thesis advisor Dr. Michael Kingston

Duke University Marine Laboratory, Beaufort, NC

* 1999 Summer Session, Marine Ecology Course

Appointments

2009-present	Assistant Research Professor, Harbor Branch Oceanographic Institute at Florida Atlantic University
2007-2009	Postdoctoral Research Associate, Harbor Branch Oceanographic Institute at Florida Atlantic University
2006-2007	Visiting Assistant Professor, Eckerd College
2006	Instructor, Science Under Sail
2004	Research fellow, Smithsonian Tropical Research Institute
2001-2006	Research fellow (summers), Perry Institute for Marine Science, NOAA Caribbean Marine Research Center
2001-2005	Teaching Assistant, Florida International University
1999-2000	Laboratory Teaching Assistant, Elon University, supervisor Dr. Lisa Carloye
1999	Research Assistant, Duke University Marine Lab, supervisors Dr. Larry Crowder and Dr. Will Figueira

Research Experience

2010-present	Estuarine impacts on coral health and benthic communities at St. Lucie Reef, FL
2010-present	Oil and dispersant impacts on coral reef communities and coral pathogenesis
2009-present	NOAA Cooperative Institute sponsored expedition and health assessment of mesophotic coral reef ecosystems in the Gulf of Mexico, South Florida, and Puerto Rico
	* Lead on coral health and connectivity projects
	* Coral Reef Conservation Program - Flower Garden Banks Habitat Assessment

- 2007-present Assessment of healthy and diseased *Montastraea cavernosa* bacterial communities and gene expression in the Lower Florida Keys and Bahamas
- 2007-2010 NOAA Florida Keys National Marine Sanctuary Coral Health Assessment Cruise
* Extensive surveys and sampling to support the monitoring and resource management in the Florida Keys and Dry Tortugas
- 2001-2006 An integrative analysis of environmental factors, coral population and community structure, and microbial community composition associated with coral diseases near Lee Stocking Island, Bahamas, and the Florida Keys
- 2008 Rapid assessment of Caribbean coral reefs and management approaches in Dominica, Bonaire, Curacao, St. Eustatius, and Saba with University of Rhode Island
- 2004 Coral disease surveys at the Smithsonian Tropical Research Institute, Bocas del Toro, Panama
- 2003 Ecological characterization of benthic habitats from Key West to Dry Tortugas National Park
- 2001 An analysis of artificial reef design and ecological impact
- 2000 Coral disease abundance and species susceptibility near Lee Stocking Island, Bahamas
* Two month internship at Caribbean Marine Research Center
- 2000 Diel variation in the near-shore fish community of San Pedro, Belize
- 1999 Duke University Marine Laboratory Research Assistant
* Independent lab work removing and processing otoliths and gonads from damselfish
- 1999 Physical analysis, phytoplankton density, and water quality studies in Pamlico Sound, NC

Publications

Refereed Journal Articles

- Klepac CN, Beal J, Kenkel CD, Sproles A Polinski J, Williams M, Matz M, Voss JD. 2015. Seasonal stability of coral-Symbiodinium associations in the subtropical coral habitat of St. Lucie Reef, Florida. *Marine Ecology Progress Series* 532:137-151
- Voss JD, Mills DK, Remily ER, Myers JL, Richardson LL. 2007. Black band disease microbial community variation on corals in three regions of the Wider Caribbean. *Microbial Ecology* 54:730-739
- Richardson LL, Sekar R, Myers JL, Gantar M, Voss JD, Kaczmarek L, Remily ER, Boyer GL, Zimba PV. 2007. The presence of the cyanobacterial toxin microcystin in black band disease of corals. *FEMS Microbiology Letters* 272: 182–187
- Voss JD, Richardson LL. 2006. Nutrient enrichment enhances black band disease progression in corals. *Coral Reefs* 25: 569-576
- Mills DK, Entry JA, Voss JD, Gillevet PM, Mathee K. 2006. An assessment of the hypervariable domains of the 16S rRNA genes for their value in determining microbial community diversity: the paradox of traditional ecological indices. *FEMS Microbiology Ecology* 57: 496-503
- Sekar R, Mills DK, Remily ER, Voss JD, Richardson LL. 2006. Microbial communities in the surface mucopolysaccharide layer and the black band microbial mat of black band diseased *Siderastrea siderea*. *Applied and Environmental Microbiology* 72:5963-5973
- Voss JD, Richardson LL. 2006. Coral diseases near Lee Stocking Island, Bahamas: patterns and potential drivers. *Diseases of Aquatic Organisms* 69:33-40
- Richardson LL, Mills DK, Remily ER, Voss JD. 2005. Development and field application of a molecular probe for the primary pathogen of the coral disease white plague type II. *Revista de Biología Tropical* 53:1-10
- Richardson LL, Voss JD. 2005. Changes in a coral population on reefs of the northern Florida Keys following a coral disease epizootic. *Marine Ecology Progress Series* 297:147-156

Book chapters

- Voss JD, Williams M, Reed J, Clark R. 2014. Chapter 5: Benthic and fish communities in the middle and lower mesophotic zone of the Flower Garden Banks National Marine Sanctuary in R. Clark, J.C. Taylor, C.A. Buckel, and L.M. Kracker (eds). Fish and benthic communities of the Flower Garden Banks National Marine Sanctuary: science to support sanctuary management. NOAA NOS NCCOS 179. Silver Spring, MD. 317 pp
- Rogers C, Voss JD, and 23 others. 2008. Coral Reefs of the U.S. Virgin Islands. In: Riegl B, Dodge R (eds) Coral Reefs of the United States of America. Springer, Berlin.

Technical Reports

- Reed J, Voss JD, Hanisak D. 2015. Mesophotic Reef Ecosystems (project 5.3.1). Year 6 Annual Report. NOAA Office of Ocean Exploration and Research.
- Voss JD, Beal J. 2015. An integrative assessment of estuarine impacts on coral health: a case study in South Florida. Annual Report. Florida Sea Grant.
- Voss JD, Beal J. 2015. Estuarine impacts on St. Lucie reef: determining the effects of changing resource management on Florida's northernmost coral reef. Annual Report. HBOIF Save Our Seas Specialty License Plate Program.
- Voss JD, Beal J. 2015. Estuarine impacts on St. Lucie reef: determining the effects of changing resource management on Florida's northernmost coral reef. Annual Permit Report. St. Lucie Inlet State Park.
- Sealover N, Voss JD. 2015. Assessing Population Genetics of *Montastraea cavernosa* in South Florida. HBOI Summer Internship Final Report.
- Weinheimer A, Voss JD. 2015. Comparing bacterial community composition of *Montastraea cavernosa* mucus between exposures to high and low levels of freshwater discharge from the St. Lucie Canal. HBOI Summer Internship Final Report.
- Polinski J, Voss JD. 2014. Determining relative abundances of different Symbiodinium found in *Montastraea cavernosa* and *Pseudodiploria clivosa* at St. Lucie Reef. HBOI Summer Internship Final Report.
- Voss J. 2015. CIOERT July 2015 Coral Connectivity and Habitat Characterization. Cruise and sampling report submitted to Flower Garden Banks National Marine Sanctuary.
- Voss JD. 2015. CIOERT October 2014 Coral Connectivity and Habitat Characterization. Cruise and sampling report submitted to Flower Garden Banks National Marine Sanctuary.
- Reed J, Voss JD, Hanisak D. 2014. Mesophotic Reef Ecosystems (project 5.3.1). Year 5 Annual Report. NOAA Office of Ocean Exploration and Research.
- Voss JD, Beal J. 2014. Estuarine impacts on St. Lucie reef: determining the effects of changing resource management on Florida's northernmost coral reef. Annual Report. HBOI Save Our Seas Specialty License Plate Program.
- Voss JD, Edge S, Cohen L. 2014. Molecular responses of sponges to environmental stressors. Annual report. HBOI Save Our Seas Specialty License Plate Program.
- Edge S, Cohen L, Voss JD. 2013. Molecular responses of coral larvae to ultraviolet radiation, elevated temperature, and decreased salinity. Annual report. HBOI Save Our Seas Specialty License Plate Program.
- Clark R, Voss JD, Taylor C. 2013. Fish and benthic communities on shallow and deep habitats of the Flower Garden Banks National Marine Sanctuary: Establishing baseline data to support sanctuary management. NOAA NCCOS.
- Alker A, Voss JD. 2013. Investigating Coral Bacterial Communities in the Flower Garden Banks. HBOI Summer Intern Program Final Report.
- Polinski J, Voss JD. 2013. Algal Symbionts in Corals From St. Lucie Reef, Florida. HBOI Summer Intern Program Final Report.
- Beal J, Voss JD, Edge S, Cohen L. 2012. Assessment of Coral Stressors on St. Lucie Reef: Florida's Northernmost Coral Reef; Final report for State Wildlife Grant USFWS T-19-1, 54 pp.
- Sproles A, Voss JD. 2012. Zooxanthellae and Chlorophyll Abundance in the Corals *Montastraea cavernosa* and *Diploria clivosa* at St. Lucie Reef. HBOI Summer Intern Program Final Report.
- Rowan D, Voss J. 2010. Assessing the effects of increased temperature, light, and colony of origin on black band coral disease. HBOI Summer Intern Program Final Report.
- Rowan D, Voss J. 2009. Temperature and light effects on the progression of black band coral disease. HBOI Summer Intern Program Final Report.

Refereed Presentations and Proceedings by Voss

International

- Voss JD, Studivan MS, Williams M, Clark R, Horn L, Hickerson E, Nuttall M, Reed J, Schmahl GP. Exploration and Characterization of Flower Garden Banks National Marine Sanctuary and Neighboring Banks in the NW Gulf of Mexico. 13th International Coral Reef Symposium, Honolulu, Hawai'i, June 19-24, 2016.
- Voss JD, Williams M, Clark R, Reed J, Horn L, Hickerson E, Nuttall M. 2015. Exploration and Characterization of McGrail, Bright, East and West Flower Garden Banks in the Northwest Gulf of Mexico. Benthic Ecology Meeting, Quebec City, Canada, Mar 4-8, 2015.
- Voss JD, Beal J, Williams M, Cohen L, Edge S, Klepac C. 2014. Estuarine impacts on coral reef health and the implications for management in Southeast Florida. Benthic Ecology Meeting. University of North Florida, Jacksonville, FL, Mar 19-22

- Voss JD, Williams M, Clark R, Reed J, Horn L, Hickerson E, Nuttall M, Taylor C, Schmahl GP. 2014. Characterization of benthic habitat and coral community composition in deep water habitats at the Flower Garden Banks National Marine Sanctuary. Benthic Ecology Meeting. University of North Florida, Jacksonville, FL, Mar 19-22
- Voss JD, Beal J, Williams M, Cohen L, Klepac, C. 2014. Estuarine impacts on coral reef health and the implications for management in Southeast Florida. Indian River Lagoon Symposium. Harbor Branch Oceanographic Institute, Fort Pierce, FL. Feb 6, 2014
- Voss JD, Beal J, Edge S, Cohen L, Klepac C, Sproles A, Williams M. 2013. Estuarine impacts on coral reef health and the implications for water resource management in Southeast Florida. 22nd Biennial Conference of the Coastal And Estuarine Research Federation, San Deigo, CA. Nov 3-8, 2013.
- Voss JD, Williams M, Clark R, Reed J, Horn L, Hickerson E, Nuttall M, Taylor C, Schmahl GP. 2013. High-resolution habitat characterization of the Flower Garden Banks National Marine Sanctuary. 42nd Benthic Ecology Meeting, Savannah, GA. Mar 20-23. 2013.
- Voss JD, Edge S, Cohen L, Fahsbender E, Williams M, Harrison N. 2012. Oil, Dispersant, and Disease: Impacts and Interactions on Corals in the Florida Keys. 41st Benthic Ecology Meeting, Norfolk, VA. Mar 23, 2012.
- Voss JD, Beal J, Edge S, Cohen L, Hanisak MD. 2012. Estuarine Impacts on St. Lucie Reef: Determining the effects of changing resource management on Florida's northernmost coral reef. 41st Benthic Ecology Meeting, Norfolk, VA. Mar 23, 2012.
- Voss JD, Beal J, Edge S, Cohen L, Hanisak MD. 2012. Estuarine Impacts on St. Lucie Reef: Determining the effects of changing resource management on Florida's northernmost coral reef. Indian River Lagoon Symposium, Fort Pierce, FL. Feb 9, 2012.
- Voss JD, Edge S, Cohen L, Fahsbender E, Williams M, Harrison N. 2011. Oil, Dispersant, and Disease: Impacts and Interactions on Corals in the Florida Keys. Coastal And Estuarine Research Federation Meeting, Daytona Beach, FL. Nov 7, 2011.
- Voss JD. 2011. Determine the molecular basis of susceptibility to disease, oil, and dispersant in Florida corals. Protect Our Reefs Program Annual Meeting. Key West, FL.
- Voss JD, Edge SE, Rowan D. 2010. Bright lights, big city: investigating the synergistic effects of temperature and light on black band disease pathogenesis in anthropogenically exposed corals. Association of Limnology and Oceanography Ocean Sciences Meeting, Portland, OR. Feb 22-26, 2010
- Voss JD, Edge SE, Rowan D. 2010. Coral disease dynamics and impacts on the Florida Keys. Florida Keys National Marine Sanctuary Linking Science to Management Conference. Duck Key, FL.
- Voss JD, Edge SE. 2009. Black Band Disease Dynamics and the Fate of Host Coral Communities. 38th Annual Benthic Ecology Meeting, Corpus Christi, TX. Mar 4-7, 2009
- Voss JD, Edge SE. 2009. The impacts of black band disease on coral communities in the Lower Florida Keys and Lee Stocking Island, Bahamas. American Society of Microbiology Florida Branch Meeting, Islamorada, FL.
- Voss JD, Mills DK, Edge SE, Richardson LL. 2008. Black band disease dynamics and variation in the pathogenic microbial community. 11th International Coral Reef Symposium, Fort Lauderdale, FL. July 7-11, 2008
- Voss JD. 2008. Black band disease dynamics: assessing nutrient impacts and microbial community variation. ASLO Ocean Sciences Meeting, Orlando, FL. Mar 2-7, 2008
- Voss JD, Mills DK, Myers JL, Remily ER, Richardson LL. 2007. Black band disease microbial communities vary on corals in three regions of the Wider Caribbean. 36th Annual Benthic Ecology Meeting, Atlanta, GA. Mar 21-25, 2007
- Voss JD, Richardson LL. 2007. Coral disease dynamics and nutrient availability on reefs of the Northern Florida Keys and Lee Stocking Island, Bahamas. 33rd Science Conference of the Association of Marine Laboratories of the Caribbean, Saint Thomas, US Virgin Islands. June 4-8, 2007.
- Voss JD, Mills DK, Sekar R, Remily ER, Richardson LL. 2006. Assessing variation in microbial community profiles associated with black band disease of corals by LH-PCR. Florida International University Biomedical and Comparative Immunology Symposium, Miami, FL.
- Voss JD, Mills DK, Richardson LL. 2006. Variation in microbial community profiles associated with black band disease of corals. 8th Annual Florida International University Biology Symposium, Miami, FL.
- Voss JD, Remily ER, Richardson LL. 2005. The effect of nutrient enrichment on black band disease of corals. 7th Annual Florida International University Biology Symposium, Miami, FL.
- Voss JD, Mills DK, Richardson LL. 2005. Black band disease: dynamics, drivers, and variation in the associated pathogenic microbial community. Association of Marine Laboratories of the Caribbean 32nd Scientific Meeting, Curaçao. June 13-17, 2005.

- Voss JD, Richardson LL. 2005. Nutrient enrichment impacts severity and rate of progression in black band disease of corals. Association of Limnology and Oceanography Aquatic Sciences Meeting, Salt Lake City, UT. Feb 20-25, 2005
- Voss JD, Mills DK, Richardson LL. 2004. An integrative analysis of environmental factors, coral population and community structure, and microbial community composition associated with coral diseases near Lee Stocking Island, Bahamas. 10th International Coral Reef Symposium, Okinawa, Japan.. June 28-July 2, 2004.
- Voss JD, Richardson LL. 2004. The role of coral diseases in coral population and community structure. 6th Annual Florida International University Biology Symposium, Miami, FL.
- Voss JD and LL Richardson. 2003. Environmental factors and coral community composition associated with coral diseases in the Northern Florida Keys and Bahamas' Exuma Chain. 88th Annual Meeting of Ecological Society of America, Savannah, GA. Aug 3-8, 2003
- Voss JD. 2001. Coral disease near Lee Stocking Island, Bahamas. Student Undergraduate Research Forum, Elon University, Elon, NC.

Published Peer-reviewed Abstracts from Presentations by Students with Voss as coauthor and mentor

- Studivan MS, Voss JD. 2016. Comparing genetic connectivity and gene expression across shallow and mesophotic reef corals in the Gulf of Mexico. 13th International Coral Reef Symposium, Honolulu, Hawai'i, June 19-24, 2016.
- Polinski JM, Voss JD. 2016. Evidence of adaptation in coral-algal symbiosis at mesophotic depths in the northwest Gulf of Mexico. 13th International Coral Reef Symposium, Honolulu, Hawai'i, June 19-24, 2016.
- Shatters A, Voss JD, Beal J. 2016. Effects of St. Lucie estuarine discharge water and thermal stress on *Montastraea cavernosa*. 13th International Coral Reef Symposium, Honolulu, Hawai'i, June 19-24, 2016.
- Dodge D, Voss JD. 2016. Investigating population genetics of the scleractinian coral, *Montastraea cavernosa*, along the Florida coral reef tract's northern extent. 13th International Coral Reef Symposium, Honolulu, Hawai'i, June 19-24, 2016.
- Reed J., Stephanie Farrington, Joshua Voss, Villy Kourafalou, Ryan Smith, Keith Spring, Dennis Hanisak. 2016. Resilience of a unique mesophotic reef in the Gulf of Mexico, USA: A 30-Year historical perspective of the coral communities at Pulley Ridge Reef. 13th International Coral Reef Symposium, Honolulu, HI, June 19-24, 2016.
- Polinski JM, Voss JD. 2016. Evidence of adaptation in coral-algal symbiosis at mesophotic depths in the northwest Gulf of Mexico. Benthic Ecology Meeting, Portland, ME, USA, March 16-19, 2016.
- Studivan M, Voss JD. 2015. Connectivity and Plasticity of Mesophotic Corals in the Gulf of Mexico. Benthic Ecology Meeting, Quebec City, Canada, Mar 4-8, 2015. Poster, *Received Outstanding Poster Award.
- Polinski J, Voss JD. 2015. Poster. Characterizing algal symbionts from mesophotic corals in the Gulf of Mexico. Benthic Ecology Meeting, Quebec City, Canada, Mar 4-8, 2015. Poster.
- Alker A, De Leon S, Parsons R, Voss JD. Antibiotic resistance in bacteria following the sewage outfalls of Bermuda. Benthic Ecology Meeting, Quebec City, Canada, Mar 4-8, 2015. Poster.
- Shatters A, Voss JD, Beal J. 2015. Effects of St. Lucie Estuarine Discharge Water and Temperature on Corals and their Symbionts. Benthic Ecology Meeting, Quebec City, Canada, Mar 4-8, 2015. Poster.
- Studivan M, Voss JD. 2015. Connectivity and Plasticity of Mesophotic Corals in the Gulf of Mexico. Florida Atlantic University Graduate Research Symposium, Mar. 13, 2015. Poster.
- Polinski J, Voss JD. 2015. Poster. Characterizing algal symbionts from mesophotic corals in the Gulf of Mexico. Florida Atlantic University Graduate Research Symposium, Mar. 13, 2015. Poster.
- Shatters A, Voss JD, Beal J. 2015. Effects of St. Lucie Estuarine Discharge Water and Temperature on Corals and their Symbionts. HBOI Indian River Lagoon Symposium. Harbor Branch Oceanographic Institute, Fort Pierce, FL, Feb 5, 2015.
- Sealover N, Voss JD. 2015. Assessing Population Genetics of *Montastraea cavernosa* in South Florida. HBOI Summer Intern Symposium. July 30, 2015
- Weinheimer A, Voss JD. 2015. Comparing bacterial community composition of *Montastraea cavernosa* mucus between exposures to high and low levels of freshwater discharge from the St. Lucie Canal. HBOI Summer Intern Symposium. July 30, 2015
- Klepac C, Voss JD, Beal J, Williams M, Sproles A, Polinski J. 2014. Coral and Zooxanthellae Responses to Seasonal Fluctuations and Freshwater Discharge on St. Lucie Reef, FL. Benthic Ecology Meeting. University of North Florida, Jacksonville, FL, Mar 19-22
- Studivan M, Voss JD. 2014. How deep is too deep? A reciprocal transplant with a mesophotic coral species. Benthic Ecology Meeting. University of North Florida, Jacksonville, FL, Mar 19-22

- Klepac C, Voss JD. 2014. Coral and Zooxanthellae Responses to Seasonal Fluctuations and Freshwater Discharge. Indian River Lagoon Symposium. Harbor Branch Oceanographic Institute, Fort Pierce, FL. Feb 6, 2014 . Poster
- Rowan D, Voss JD. 2009. Investigating the role of temperature and light on black band disease of coral. Florida Branch of the American Society of Microbiology Annual Meeting, Islamorada, FL, October 10, 2009. Oral Presentation.

Invited Presentations by Voss

- Voss JD. 2014 Estuarine Impacts on St. Lucie Reef. HBOI Specialty License Plate Research Symposium. Harbor Branch Oceanographic Institute, Fort Pierce, FL. July 23, 2014
- Voss JD and Beal J. Black and Blue: What Happens When you Mix Freshwater Discharge and a Coastal Coral Reef? Harbor Branch Ocean Science Lecture Series. Feb 5, 2014
- Voss, JD, Beal J, Edge SE, Hanisak MD. Estuarine Impacts on St. Lucie Reef. HBOI Specialty License Plate Research Symposium. Harbor Branch Oceanographic Institute, Fort Pierce, FL. May 16, 2013
- Voss JD. Corals on the Edge: St. Lucie Reef and Impacts from Estuarine Discharge. Florida Oceanographic Society Coastal Lecture Series. Feb 10, 2014
- Voss JD. 2100: A coral reef odyssey. Marine and Coastal Issues Theme Meeting. Florida Atlantic University, Boca Raton, FL. Apr 29, 2013.
- Voss JD, Edge SE. Oil, Dispersant, and Disease: Impacts and Interactions on Corals in the Florida Keys. Mote Protect Our Reef Meeting, Key West, FL. Apr 24, 2013
- Voss JD. 100 Miles Out: Research and Exploration in the Flower Garden Banks National Marine Sanctuary. Smithsonian Marine Station Seminar Series, Fort Pierce, FL. Mar 8, 2013.
- Voss JD, Reed J, Edge SE, Hanisak MD. Vulnerable Deep and Mesophotic Coral Ecosystems: Evaluating Coral Reef Resources and Ecosystem Health. CIOERT Comprehensive Science Review Meeting, Oct 2, 2012
- Voss JD. Emerging Coral Diseases and Their Impacts on Reef Ecosystems. LUMCON. June 8, 2012.
- Voss JD. Charting the Future for Coral Ecosystems: An integrative approach to coral health and management. Scripps Howard Institute. May 22, 2012.
- Voss JD. Coral Diseases: Impacts and Drivers. Marine and Oceanographic Academy. April 9, 2012.
- Voss JD. Everything's Coming Up Corals: Research and Exploration in the Flower Garden Banks National Marine Sanctuary. Harbor Branch Ocean Science Lecture Series. Mar 7, 2012.
- Voss JD. Corals on the Edge: Charting a Future for Coral Reef Ecosystems. Jupiter Island Club, Jupiter, FL. Feb 2, 2012.
- Voss JD, Edge S, Cohen L, Fahsbender E, Williams M, Harrison N. 2011. Oil, Dispersant, and Disease: Impacts and Interactions on Corals in the Florida Keys. FAU Marine Science Symposium. Nov 4, 2011.
- Voss JD. Connecting The Dots: Molecular Characterization and Health Assessment of Mesophotic Coral Reefs. FLOSEE. Sept 8, 2011
- Beal J, Voss JD. Living on the Ledge: Assessment of Coral Stressors on St. Lucie Reef. SEFCRI TAC Meeting, National Coral Reef Institute, Dania Beach, FL. May 31, 2012.
- Voss JD. 2011. Corals on the Edge: Charting a future for Coral Reef Ecosystems. Eckerd College Sigma Xi Keynote Lecture. St. Petersburg, FL.
- Voss JD. 2010. Coral ecology and pathogenesis. Envirovet at HBOI. Fort Pierce, FL.
- Voss JD. 2010. A decade of demise? Charting the past and future of Florida coral reefs. Ocean Science Lecture Series, Harbor Branch Oceanographic Institute at FAU. Feb. 17, 2010.
- Voss JD. 2009. Black band disease dynamics and the fate of host coral colonies. Ocean Research Colloquium, Harbor Branch Oceanographic Institute at FAU. Apr. 20, 2009.
- Voss JD. 2009. Who slimed my coral? Emerging coral diseases and their impact on reef ecosystems. Ocean Science Lecture Series, Harbor Branch Oceanographic Institute at FAU. Jan. 14, 2009.
- Voss JD. 2008. Scum of the Oceans: Coral Disease Dynamics and Impacts on Reef Ecosystems. Smithsonian Marine Station Seminar Series, Fort Pierce, FL. Dec. 5, 2008.

Grants and Contracts

Extramural

- Voss JD, Beal J. 2016. Assessing Freshwater Discharge Impacts on Coral Health and the Implications for Water Resource Management in Southeast Florida. NOAA Coral Reef Conservation Program. \$126,640. PI.
- Voss JD, Beal J. Estuarine impacts on coral reef health and the implications for water resource management in Southeast Florida. Florida Sea Grant (NOAA). \$144,948. Feb 2014 - Jan 2016. PI.

- Cowen R, Ortner P, Pomponi S. REPP - Connectivity - Pulley Ridge: Population connectivity of the Pulley Ridge - South Florida coral reef ecosystem: processes to decision-support tools. Hanisak MD, Reed J, Voss JD, et al. "Community Structure Project" NOAA-NOS-NCCOS, \$5,000,000 total award, 2011 – 2016. Co-PI
- Pomponi S, Hanisak MD, Reed J, Voss JD, Wright A. Cooperative Institute for Ocean Exploration Research and Technology, NOAA, July 1, 2009 - June 30, 2019. PI for mesophotic projects. Funding to J. Voss \$744,699. Project responsibilities for J. Voss:
- Project # 3.3.2.1: New Technology Development to Measure In Situ Metabolism and Bioenergetics in Coral Species
 - Project #5.2.4: New Technology Development in Support of Ocean Acidification Research
 - Project #5.3.1: Mesophotic Reef Ecosystems
- Voss JD, Edge SE. Molecular Basis of Susceptibility to Disease in Floridian Corals. Mote Protect Our Reef Grant Program. \$34,603. May 2010 – June 2012. PI.
- Edge SE, Voss JD, Lunz (née: Semon) K, Ruzicka R, Goodbody-Gringley G. Molecular Diagnostics of Coral Exposed to Oil and Dispersants: a holobiont approach to investigate potential effects on the host corals, symbiotic algae and mucus. Florida Institute of Oceanography (FIO), \$285,346, Feb 2010 – Mar 2013. Co-PI.
- Voss JD, Beal J, Edge SE. Assessment of Coral Stressors on St. Lucie Reef: Florida's Northernmost Coral Reef. Florida State Wildlife Grant through FFWCC Marine/Estuarine Subsection. \$26,713. July 2010 – June 2012. PI.
- Voss JD, Edge SE. Effects of light and temperature on coral pathogenesis. Mote Protect Our Reef Grant Program. \$28,975. May 2009 - April 2010. PI.
- Voss JD, Edge SE. Advanced Molecular Techniques for Quantifying Coral Health Workshop. Florida Sea Grant (NOAA). \$3800, May 2008. PI.
- Hanisak MD, Reed J, Voss JD. The Robertson Coral Reef Program. Banbury Foundation. \$1,000,000. Jan 2007 - Dec 2014.
- Voss JD, Richardson LL. An integrative analysis of environmental factors, coral population and community structure, microbial community composition, and pathogen associated with coral diseases near Lee Stocking Island, Bahamas. NOAA-NURP Caribbean Marine Research Center Program Development Grant. Four consecutive award renewals totaling \$36,777 (2005, \$7735; 2004, \$11304; 2003, \$8698; 2002, \$9040). PI.
- Voss JD. Coral disease dynamics and environmental drivers in the Northern Florida Keys and Bahamas' Exuma Chain. National Fish and Wildlife Foundation Budweiser Conservation Program. \$10,000. 2004-2005. PI.
- Voss JD. Coral disease dynamics and environmental drivers in Bocas del Toro, Panama. Smithsonian Tropical Research Institute Fellowship, \$1,304, April 2004.
- Voss JD. Environmental Protection Agency Science to Achieve Results Fellowship, \$53,390, 2002-2005.

Intramural

- Voss JD. 2015. Project CLOUD: Comprehensive Landscape Observation via Unmanned Drone. HBOIF Save Our Seas Specialty License Plate Program. \$17,612. May 1, 2015-October 31, 2015. PI.
- Voss JD, Hanisak MD, Edge SE. Estuarine Impacts on St. Lucie Reef: Determining the effects of changing resource management on Florida's northernmost coral reef. Harbor Branch Save Our Seas Specialty License Plate Program. \$200,000. July 1, 2011 – December 31, 2015. PI.
- Edge SE, Voss JD. Molecular Responses of Coral Larvae. Harbor Branch Oceanographic Institute Save Our Seas Specialty License Plate Program. \$40,269. July 1, 2011-June 30, 2013. Co-PI.
- Edge SE, Pomponi S, Voss JD. Molecular Responses of Sponges to Environmental Stressors. Harbor Branch Oceanographic Institute Save Our Seas Specialty License Plate Program. \$116,008. July 1, 2011-Dec 31, 2013. Co-PI.
- Voss JD. Eckerd College Faculty Development Grant \$700. 2006-2007. PI.
- Voss JD. Florida International University Dissertation Fellowship. \$18000. 2005-2006.

Teaching Experience

- 2007-present Florida Atlantic University, Harbor Branch Oceanographic Institution
- Undergraduate courses developed and taught:
 - Marine Biodiversity and Lab (OCB 4032, OCB 4032L)
 - Marine Microbial and Molecular Biology and Lab (OCB 4525, OCB 4525L)
 - Field Studies in Marine Science and Lab (BSC 4930, BSC 4930L)

Graduate courses developed and taught:

Coral Reef Ecosystems and Lab (OCB 6266, OCB 6266L)
Marine Molecular Ecology (BSC6936)
Ocean Exploration (BSC 6936)
Marine Molecular Biology (BSC 6465)

Directed Independent Studies courses developed and taught:

Next Generation Sequencing Approaches (BSC 6905)
Impacts of LBSPs on Coral Reefs (BSC 6905)
Coral Mesocosm Techniques (BSC 6905)
Deep Sea Coral Communities (BSC 6905)
Evaluating Estuary Water Quality (BSC 6905)
Realtime PCR Techniques (BSC 6905)
Coral Health Research (BSC 6905)
Molecular Methods in Coral Ecology (BSC 4905)
Techniques in Coral Conservation (BSC 4905)

Thesis, Dissertation, and research courses advised:

Masters Thesis (BSC 6971)
Masters Proposal (BSC 6905)
Masters Defense (BSC 6905)
Dissertation (BSC 7980)
Advanced Research in Int Bio (BSC 7978)

Organizer and Instructor for Florida Sea Grant sponsored “Advance Molecular Technologies for Quantifying Coral Health: a Workshop for Florida’s Reef Researchers,” week long workshop offered at FAU Harbor Branch in 2008

PCR and Gel Imaging Workshops for the Lincoln Park Academy and the Westwood Marine and Oceanographic Academy

2006-2007 Eckerd College, Department of Marine Science

Undergraduate courses developed and taught:

Marine Invertebrate Biology and Lab (MS189, MS189L)
Biological Oceanography (MS 209)
Coral Reef Ecosystems (MS 318; new course)
Senior Seminar: Threats to Marine Ecosystems and Species (MS 410)
Florida’s Barrier Islands (WT2E; new course)

Independent Research course developed and taught:

Coral Restoration (BI 430)

2006-2007 Science Under Sail, Inc.:

Assistant instructor on 3 week marine science and sailing education program

2001- 2005 Florida International University

Courses taught: Marine Biology and Oceanography Lab, General Microbiology Lab, Introductory Microbiology Lab

2005, 2007 NOAA Caribbean Marine Research Center, Lee Stocking Island, Bahamas

Coral species and disease identification workshop instructor

1999 -2000 Elon University, Biology Department

Assistant instructor: Zoology Laboratory (3 semesters)

Graduate Students Supervised

Danielle Dodge, 2015-present, FAU Biology Masters student. *Comparative field and molecular studies of coral health on freshwater impacted reef.*

Alycia Shatters, 2014-present, FAU Biology Masters student. *Effects of Estuarine Discharge Water and Temperature on Corals and their Symbionts.*

Jennifer Polinski, 2014-2016, FAU Biology Masters Student. *Investigating Algal Symbionts in Mesophotic and Shallow Corals*, also 2013 and 2014 HBOI Summer Intern.

Michael Studivan, 2012-present, FAU Integrative Biology PhD student. *Connectivity and Plasticity of Mesophotic Corals in the Gulf of Mexico.*

Courtney Klepac, 2012-2014, FAU Biology Masters student. *Characterization of Symbiotic Algae, Genus Symbiodinium, in Corals at St. Lucie Reef, FL*

Graduate Student Committee Work

Carlie Perricone, 2015-present, FAU MS Biology student
Megan Conkling, 2014-present, FAU MS Biology student
Lucas Jennings, 2012-2015, FAU MS student
Joshua Filina, 2010-2014, FAU MS student
Nitzan Soffer, 2010-2011, Florida International University PhD student, transferred to Oregon State University

Undergraduate Students Supervised

Gillian O'Neal, 2016, HBOI Summer Intern. *Morphometric analysis of Montastrea cavernosa from shallow and mesophotic reefs of Flower Garden Banks National Marine Sanctuary*
Nancy Sealover, 2015, University of Maryland, HBOI Summer Intern. *Assessing Population Genetics of Montastraea cavernosa in South Florida*
Alaina Weinheimer, 2015, Penn State University, HBOI Summer Intern. *Comparing bacterial community composition of Montastraea cavernosa mucus between exposures to high and low levels of freshwater discharge from the St. Lucie Estuary*
Ali Courtemanche, 2014, FAU undergraduate thesis and DIS student. *Microscopic analysis of coral zooxanthellae*
Samantha Johnston, 2014-2015, FAU Honors Thesis Student. *Morphometric assessment of shallow water and mesophotic scleractinian coral, Montastraea cavernosa*
Amanda Alker, 2013-2015, FAU Honors Thesis Student and HBOI Summer Intern. *Assessing in coral microbial communities on mesophotic reefs and sewage impacted shores of Bermuda.*
Jennifer Polinski, 2013 and 2014, Albion College, HBOI Summer Intern. *Algal Symbionts in Corals From St. Lucie Reef, Florida.*
Ashley Sproles, 2012, Florida Institute of Technology, HBOI Summer Intern. *Zooxanthellae and chlorophyll abundance in the corals Montastraea cavernosa and Diploria clivosa at St. Lucie Reef, FL.*
Miguel Martini, 2012-2013, FAU Honors Thesis Student. *Disease resistance, resilience, and susceptibility in the star coral Orbicella faveolata*
Elizabeth Fahsbender, 2011, University of South Florida, HBOI Summer Intern, *Effects of oil and dispersant on disease and coral mucus bacterial community structure in the coral Montastraea faveolata*
Maureen Williams, 2010 and 2011, University of Notre Dame, HBOI Summer Intern, *Oil, Dispersant, and Hypoxia effects on the model cnidarian Aiptasia pallida*
Daniel Rowan, 2009-2010, FAU, HBOI and NSF URM Intern, *Temperature and light effects on black band disease severity and microbial community structure*
Jessie Drechsel, 2006-2007, Eckerd College, Senior Thesis, *Chemically induced bleaching of the hard coral Madracis mirabilis*
Jennifer Jordan, 2006-2007, Eckerd College, Senior Thesis, *Shipping impacts on reefs near Port Everglades: response, restoration, and recovery*

Service and Professional Development

Institutional Service

Florida Atlantic University

2016	FAU Three Minute Thesis Competition Coordinator for Harbor Branch Campus
2015-present	FAU Harbor Branch Faculty Assembly Research subcommittee and Education subcommittee member
2015-present	Master of Marine and Coastal Science Program Committee
2012-present	FAU Dive and Boating Safety Committee,
2010-2014	FAU Harbor Branch Research Council
2010, 2015-16	FAU Harbor Branch Executive Director Search Committee (twice)
2013	FAU Harbor Branch Interim Executive Director Search Committee
2012-2013	FAU Harbor Branch Promotion Guideline Committee
2012-2013	FAU Harbor Branch Strategic Plan Committee
2011-2012	FAU Honors Task Force
2010-present	FAU Climate Change Initiative
2009-present	Campus tours 2013: 13, 2014: 10

Eckerd College
2006-2007 Scuba Club Faculty Advisor, 2006-2007
2006-2007 Honors Curriculum Development Committee, 2006-2007

Professional Service

2016 NSF Panelist in Biological Sciences Directorate
2013-present South Atlantic Fisheries Management Council, Coral Advisory Panel
Biannual meetings to develop research and policy recommendations for coral reef resources in South Atlantic Region
2013- present Southeast Florida Coral Reef Initiative Team, academic representative
SEFCRI Technical Advisory Committee co-lead (2014-present)
Coordinator for quarterly meetings to provide recommended management actions
Participation in the “Our Florida Reefs” community working group process
SEFCRI workgroup leader at last 3 team meetings
2013-present Global Invertebrate Genomics Alliance member and contributor
2012 International Coral Reef Symposium Session co-chair
2011-2013 Coastal and Estuarine Research Federation judge for student presentations and posters
2010 Coordinator, NOAA Cooperative Institute for Exploration, Research, and Technology sponsored workshop: Ocean Acidification Instrumentation and Research Needs. St. Petersburg, FL, March 11-14, 2010
2009-present Annual Benthic Ecology Meeting session chair and judge for student presentations and posters
2009-2013 Southeast Florida Coral Reef Initiative technical advisor
2008-2015 NOAA Florida Keys National Marine Sanctuary Technical Advisory Committee
2007-present Journal Reviewer including *Coral Reefs*; *Marine Ecology Progress Series*; *Limnology and Oceanography*; *Diseases of Aquatic Organisms*; *PLoS One*; *Bulletin of Marine Science*; *Aquatic Toxicology*; *Ecology*; *TREE*; *JEMBE*; *Microbial Ecology*; *FEMS Microbiology Ecology*; *Bioscience*; *Molecular Ecology*;
2007- present Proposal Reviewer: National Science Foundation; National Oceanographic and Atmospheric Administration; Florida FWC; State Wildlife Grants; Florida, Hawaii, Puerto Rico, and Louisiana Sea Grant Programs

Professional Organizations

2007-2012 National Ocean Science Bowl, Moderator and Science Judge
2002- present International Society for Reef Studies
2003- present Association of Limnology and Oceanography
2006-present Sigma Xi
2002- present Association of Marine Labs of the Caribbean
* Graduate Student Coordinator 2004-2006
2002-2009 Bahamas Reef Environmental Education Foundation
2004-2012 Friends of the Environment, Abaco, Bahamas

Outreach Videos

Participation in 5 FAU Harbor Branch outreach videos and 1 FAU Advertisement video
Production of 9 outreach videos based on our laboratories research including:
“Exploring Twilight Reefs of the Flower Garden Banks.” Video selected by BLUE Oceans Film Competition for screening in Corpus Christi, TX. Jan 23, 2016. <https://www.youtube.com/watch?v=2nC9VPGiI-s>
“Black and Blue: Estuarine Discharge and St. Lucie Reef.” Video selected by Beneath The Waves for screening at 10-12 film festivals/ competitions in 2016. <https://www.youtube.com/watch?v=PynakC9ipkk>
All videos available at <https://www.youtube.com/channel/UC2Ke1UnQ0upVffagcgPmfpw>

Selected Media Coverage

Oculina Coral Reefs (2015)

“FAU Harbor Branch using submarines to look for impact of bottom fishing on Oculina reefs” Chanel 5 WPTV, M. McRoberts

“Submarine dives to 300 feet down to locate fishing protection zones” CBS12 Stuart, J. Eschbach

“Mini-sub hunts for what’s left of coral reef” Vero News, 32963, S. Thomas

“Researchers Use Submarine, Divers To Search For Oculina Coral” TC Palm Treasure Coast Newspapers, T. Treadway

Coastal Water Quality and Coral Health (2013-present)

“NOAA issues Rare Alert on Corals in Peril” Palm Beach Post, K. Miller

Interview for Martin County TV “Your Environment,” by FAU Division of Research and redistributed

“What are Lake O discharges doing to coral reefs? Harbor Branch scientist dives in to find out” TC Palm Treasure Coast Newspapers, E. Samples, front page of St. Lucie News Tribune

Cooperative Institute for Ocean Exploration, Research, and Technology (2010-present)

Interviews with Kerry Sanders with multiple airings on: “The Today Show,” “The NBC Nightly News with Brian Williams,” “Dateline NBC,” MSNBC, and The Weather Channel

“Assessing the Damage, Joshua Voss ’01 studies the impact of oil in the Gulf of Mexico” Magazine of Elon, K. Simonetti
FAU Harbor Branch Exploration Command Center coverage by NOAA, TC Palm, and FAU Division of Research

International Coral Reef Symposium (2008)

“US Reefs under threat” Nature News, D. Cressey

“South Florida Hosts Global Coral Conference” Chanel 5 WPTV, J. Cashmere

Research Cruises and Expeditions

- 2016 *RV Manta*. CIOERT Coral Connectivity and Habitat Characterization: East, West, McGrail, and Bright Banks. Collaboration with Flower Garden Banks National Marine Sanctuary II. Technical diving. May 1-6, 2016. PI and Chief Scientist.
- 2015 *RV Manta*. CIOERT Coral Connectivity and Habitat Characterization: East, West, McGrail, and Bright Banks. Collaboration with Flower Garden Banks National Marine Sanctuary. Technical diving. October 23-29, 2015. PI and Chief Scientist.
- Okeanos Explorer*. CIOERT Exploration of the Johnston Atoll, Hawaii. Deep Discoverer ROV. Sept 21-26, 2015. HBOI Exploration Command Center PI and co-lead for real time data acquisition and joint annotation.
- Baseline Explorer*. Submersible Exploration Oculina Corals at St. Lucie Mound. June 24-26, 2015. Collaborative expedition with Global Underwater Explorers and Brownies Global Logistics. PI and Chief Scientist.
- RV Manta*. CIOERT Coral Connectivity and Habitat Characterization: McGrail, Bright, and Geyer Banks. Collaboration with Flower Garden Banks National Marine Sanctuary and University of North Carolina Wilmington UVP. July 5-10, 2015. PI and Chief Scientist.
- Okeanos Explorer*. CIOERT Exploration of the Puerto Rico Trench. April 20-24, 2015. HBOI Exploration Command Center Co-PI and co-lead for real time data acquisition and joint annotation.
- 2014 *RV Manta*. CIOERT Coral Connectivity and Habitat Characterization: East, West, McGrail, and Bright Banks. Collaboration with Flower Garden Banks National Marine Sanctuary and University of North Carolina Wilmington UVP. October 24-30, 2014. PI and Chief Scientist.
- Okeanos Explorer*. CIOERT Exploration of the Gulf of Mexico. April 26-May 1, 2014. HBOI Exploration Command Center Co-PI and co-lead for real time data acquisition and joint annotation.
- Smithsonian Carrie Bow Cay, Belize. CIOERT Mesophotic sampling and reciprocal transplant experiment. March 5-14, 2014. PI.
- 2013 Mote Marine Tropical Research Lab, Summerland Key, FL. Coral Health and Disease: Long-term monitoring in the Lower Florida Keys. July 2-11, 2013. PI
- 2012 Mote Marine Tropical Research Lab, Summerland Key, FL. Coral Health and Disease: Long-term monitoring in the Lower Florida Keys and Examining the Roles of Genotype and Environmental Conditions in Disease Susceptibility. July 2-20, 2012. PI
- RV Manta*. Baseline Assessment of Fish and Benthic Communities and Coral Spawning. Collaboration with Flower Garden Banks National Marine Sanctuary and NOAA NCCOS. Sept 2-7, 2012. Co-PI and Habitat Diver.

- 2011 Mote Marine Tropical Research Lab, Summerland Key, FL. Coral Health and Disease: Long-term monitoring in the Lower Florida Keys and Examining the Roles of Genotype and Environmental Conditions in Disease Susceptibility. June 15-30, 2011. PI
RV Manta. Baseline Assessment of Fish and Benthic Communities and Coral Spawning. Collaboration with Flower Garden Banks National Marine Sanctuary and NOAA NCCOS. August 1-5, 2011. Co-PI and Habitat Diver.
RV Manta. Baseline Assessment of Fish and Benthic Communities and Coral Spawning. Collaboration with Flower Garden Banks National Marine Sanctuary, NOAA NCCOS, and University of North Carolina Wilmington. May 15-18, 2011. Co-PI and lead for ROV annotation.
 NOAA *Nancy Foster*. CIOERT Florida Shelf Edge Exploration (FLOSEE) II on West Florida Shelf. September 12-30, 2011. Co-PI.
- 2010 *Seward Johnson*. CIOERT Florida Shelf Edge Exploration (FLOSEE) and Deepwater Horizon Oil Spill Response on West Florida Shelf. Leg 1, July 9-24, 2010. Co-PI.
RV Manta. Baseline Assessment of Fish and Benthic Communities and Coral Spawning. Collaboration with Flower Garden Banks National Marine Sanctuary and NOAA NCCOS. September 7-13, 2011. Co-PI and Habitat Diver.
RV Manta. Baseline Assessment of Fish and Benthic Communities and Coral Spawning. Collaboration with Flower Garden Banks National Marine Sanctuary, NOAA NCCOS, and University of North Carolina Wilmington. May 17-21, 2010. Co-PI and lead for ROV annotation.
Nekton Rorqual. Mesophotic Coral Ecosystems Cruise 2010: A multi-site comparison on mesophotic reefs from Mona Island, PR to St. Croix, USVI. Collaboration with University of Puerto Rico Mayaguez and University of North Carolina Wilmington. Technical Diving. January 9-22, 2010.
- 2009 NOAA *Nancy Foster*. Florida Keys National Marine Sanctuary Coral Health and Disease Cruise. September 9-20, 2009. Co-PI.
 Caribbean Marine Research Center, Lee Stocking Island, Bahamas. Coral Health and Disease: Long-term monitoring and fate tracking of diseased corals. August 23-30. PI.
 Mote Marine Tropical Research Lab, Summerland Key, FL. Coral Health and Disease: Long-term monitoring in the Lower Florida Keys and Molecular Basis of Susceptibility to Disease. August 8-13, April 12-16, February 1-5. PI.
- 2008 NOAA *Nancy Foster*. Florida Keys National Marine Sanctuary Coral Health and Disease Cruise. Aug 7-17, 2009. Co-PI.
 Caribbean Marine Research Center, Lee Stocking Island, Bahamas. Coral Health and Disease: Long-term monitoring and fate tracking of diseased corals. Aug 24-Sept 3. PI.
 Mote Marine Tropical Research Lab, Summerland Key, FL. Coral Health and Disease: Long-term monitoring in the Lower Florida Keys and Molecular Basis of Susceptibility to Disease. Jan 27-31, Apr 22-29, July 27-Aug 1, Oct 28-31. PI.

Certifications

AAUS Scientific Diver, 190 foot depth rating and 1300+ career scientific dives
 Global Underwater Explorers Fundamentals Diver
 TDI Introduction to Technical Diving, Advance Nitrox, Decompression Procedures, Extended Range, and Trimix
 PADI Open Water and Nitrox Instructor, Advanced Gas Blender, Emergency First Response Instructor, CPR
 NAUI Divemaster, Assistant Instructor, Nitrox, Rescue Diver
 DAN Oxygen Administration and Diving Emergencies
 Coast Guard Auxiliary Boating Safety and Seamanship
 * 20 years experience in operating power boats (up to 40')
 * 16 years sailing experience including racing and advanced keelboat certification (up to 42')

Honors and Awards

2012 Elon University Young Alumnus of the Year
 2006 L.L. McGee Outstanding Scientific Diver Award
 2006 Florida International Univ. Comparative Immunology Symposium Outstanding Student Presentation Award
 2002 Florida International University Graduate Student Association Research Award
 2001 Elon University Outstanding Student in the Biological Sciences
 2000 Order of Omega, National Greek Leadership Honor Society

2000 *Phi Kappa Phi*, National Scholastic Honor Society
1999 Who's Who Among Students in American Colleges and Universities
1999 *Omicron Delta Kappa*, National Leadership Honor Society
1999 *Alpha Chi*, National Honor Society
1999 *Gamma Sigma Alpha*, National Greek Honor Society
1999 *Beta Beta Beta*, National Biological Honor Society