

JOSHUA D. VOSS, PH.D.

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NARRATIVE SUMMARY

Dr. Joshua Voss is an Assistant Research Professor at Florida Atlantic University's Harbor Branch Oceanographic Institute and the Executive Director of the NOAA Cooperative Institute for Ocean Exploration, Research, and Technology. His primary areas of interest include shallow and mesophotic coral reef ecology, coral health and disease, marine molecular ecology, and marine conservation and management. A certified technical diver and scuba instructor, Dr. Voss has completed over 1500 scientific dives and led more than 35 scientific expeditions. He has contributed 21 peer-reviewed publications, delivered 35 first author scientific conference presentations, mentored 9 graduate students and 16 undergraduate students, and been awarded 26 grants (19 as lead PI). Dr. Voss teaches in both the undergraduate and graduate programs at FAU and has served on the South Atlantic Fisheries Management Council Coral Advisory Panel, the Florida Keys National Marine Sanctuary Technical Advisory Committee, The South Florida Marine Research Hub, and the Southeast Florida Coral Reef Initiative as co-lead of their Technical Advisory Committee. Dr. Voss completed his bachelor's degree at Elon University in North Carolina, earned his Ph.D. at Florida International University in Miami, and was a faculty member at Eckerd College before joining FAU Harbor Branch.

EDUCATION

2001-2006 **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
- EPA STAR and FAU Dissertation Year Fellowships

1997-2001 **Elon University**, Elon, NC

- Bachelor of Science, *Magna Cum Laude*, 2001
- Major: Biology, Minors: Chemistry, Philosophy, and Sociology
- Completed Honors Fellow and Science Fellow Programs
- Study Abroad: Tropical Field Biology in Belize, 2000
- Senior Thesis: *Artificial reef design and ecological impacts: stories of success and failure*, advisor Dr. Michael Kingston

- 1999 **Duke University Marine Laboratory**, Beaufort, NC
- 1999 Summer Session, Marine Ecology Courses

APPOINTMENTS

- 2018-present **Executive Director**, NOAA Cooperative Institute for Ocean Exploration, Research, and Technology
- 2009-present **Assistant Research Professor**, Harbor Branch Oceanographic Institute, Florida Atlantic University
- 2007-2009 **Postdoctoral Research Associate**, Harbor Branch Oceanographic Institute, Florida Atlantic University
- 2006-2007 **Visiting Assistant Professor**, Department of Marine Science, 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**, Department of Biological Sciences, Florida International University
- 1999-2000 **Laboratory Teaching Assistant**, Department of Biology, Elon University
- 1999 **Research Assistant**, Duke University Marine Laboratory

PUBLICATIONS AND PRESENTATIONS

- ^U Indicates undergraduate student supervised by Voss
^G Indicates graduate student supervised by Voss
^Q Indicates senior authorship status

Refereed Journal Articles

16. Eckert R^G, Studivan MS^G, **Voss JD**^Q. In press. The breaking point: *Montastraea cavernosa* populations lack vertical connectivity on the Belize Barrier Reef. *Molecular Ecology*
15. Studivan MS^G, Millstein G^U, **Voss JD**^Q. In press. Morphometric analysis of *Montastraea cavernosa* corallite structure reveals distinct shallow and depth-generalist morphotypes across shallow and mesophotic reefs in the Gulf of Mexico. *PLoS ONE*
14. Reed J, González-Díaz P, Busutil L, Farrington S, Martínez-Daranas B, Cobián Rojas D, **Voss JD**, Diaz C, David A, Hanisak MD, González Mendez J, García Rodríguez A, González- Sánchez P, Viamontes Fernández J, Estrada Pérez D, Studivan MS^G, Drummond F, Jiang M, Pomponi S. 2018. Cuba's mesophotic coral reefs and associated fish communities. *Revista de Investigaciones Marinas* 38:56–125

13. Studivan M^C, Voss JD^Q. 2018. Population connectivity among shallow and mesophotic *Montastraea cavernosa* corals in the Gulf of Mexico identifies potential for population refugia. *Coral Reefs* <https://doi.org/10.1007/s00338-018-1733-7>
12. Polinski JM^C, Voss JD^Q. 2018. Evidence of photoacclimatization at mesophotic depths in the coral-*Symbiodinium* symbiosis at Flower Garden Banks National Marine Sanctuary and McGrail Bank. *Coral Reefs* 37(3), 779-789
11. Garavelli L, Studivan M^C, Voss JD, Kuba A, Figueiredo J, Chérubin L. 2018. Assessment of mesophotic coral ecosystem connectivity for proposed expansion of a marine sanctuary in the northwest Gulf of Mexico: larval dynamics. *Frontiers in Marine Science* 5:174
10. Studivan M^C, Voss JD^Q. 2018. Assessment of mesophotic coral ecosystem connectivity for proposed expansion of a marine sanctuary in the northwest Gulf of Mexico: population genetics. *Frontiers in Marine Science* 5:152
9. Klepac CN^C, Beal J, Kenkel CD, Sproles A^U, Polinski J^C, Williams M^U, Matz M, Voss JD^Q. 2015. Seasonal stability of coral-*Symbiodinium* associations in the subtropical coral habitat of St. Lucie Reef, Florida. *Marine Ecology Progress Series* 532:137-151
8. 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
7. 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
6. Voss JD, Richardson LL. 2006. Nutrient enrichment enhances black band disease progression in corals. *Coral Reefs* 25: 569-576
5. 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
4. 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
3. Voss JD, Richardson LL. 2006. Coral diseases near Lee Stocking Island, Bahamas: patterns and potential drivers. *Diseases of Aquatic Organisms* 69:33-40
2. 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 Biologia Tropical* 53:1-10
1. 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

Refereed Book Chapters

5. Reed JK, Farrington S, David A, Harter S, Pomponi S, Diaz C, Voss JD, Spring KD, Hine AC, Kourafalou V, Smith RH, Vaz AC, Paris CB, Hanisak MD. 2019. Pulley Ridge, Gulf of Mexico,

- U.S.A. In: Loya, Y., Puglise, K.A., Bridge, T. (eds) *Mesophotic Coral Ecosystems of the World*. Springer, New York
4. Gress E, **Voss JD**, Eckert RJ[©], Rowlands G, Andradi-Brown DA. 2019. Mesophotic Coral Ecosystems of the Mesoamerican Reef. In: Loya Y., Puglise K., Bridge T. (eds) *Mesophotic Coral Ecosystems of the World*. Springer, New York
 3. Turner JA, Andradi-Brown DA, Gori A, Bongaerts P, Burdett HL, Ferrier-Pagès C, Voolstra CR, Bridge T, Costantini F, Gress E, Laverick J, Loya Y, Goodbody-Gringley G, Rossi S, Taylor ML, Viladrich N, **Voss JD**, Weinstein DK, Williams J, Woodall LC, Eyal G. 2019. Key questions for research and conservation of tropical mesophotic coral ecosystems and temperate mesophotic ecosystems. In: Loya Y., Puglise K., Bridge T. (eds) *Mesophotic Coral Ecosystems of the World*. Springer, New York
 2. **Voss JD**, Williams M^U, 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
 1. 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

Refereed Conference Presentations and Proceedings by Voss (35 total)

- Voss JD**, Gonzalez Diaz SP, Gonzalez Mendez J[©], Sturm AB[©], Eckert RJ[©], Studivan MS[©], Reed JK. 2018. Mesophotic coral community variation and connectivity in Cuba, the Gulf of Mexico, and Belize. MarCuba Conference. Havana, Cuba. Oral presentation.
- Voss JD**. 2018. Coral Connectivity and Symbiosis Among Mesophotic Coral Reefs in the Gulf of Mexico and Northwestern Caribbean. Mesophotic Coral Reefs Gordon Research Conference. Bates College, ME. Invited Oral Presentation.
- Voss JD**, Studivan MS[©], Polinski J[©], Reed J, Farrington S. 2017. Composition, Connectivity, and Symbiosis on Mesophotic Coral Reefs in the Gulf of Mexico. European Coral Reef Symposium, Oxford, UK. Oral presentation.
- Voss JD**, Polinski JM[©], Studivan MS[©]. 2017. Connectivity and Symbiont Adaptation among Mesophotic Corals in the Northwest Gulf of Mexico. Benthic Ecology Meeting, Myrtle Beach, SC. April 12-16, 2017. Oral Presentation.
- Voss JD**, Studivan MS[©], Williams M^U, Clark R, Horn L, Hickerson E, Nuttall M, Reed J, Schmahl GP. 2016. 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^U, 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^U, Cohen L, Edge S, Klepac C^G. 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^U, 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^U, Cohen L, Klepac C^G. 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^G, Sproles A^U, Williams M^U. 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 Diego, CA. Nov 3-8, 2013.
- Voss JD**, Williams M^U, 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^U, Williams M^U, Harrison N^U. 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^U, Williams M^U, Harrison N^U. 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^U. 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^U. 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**, Richardson LL. 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.

Refereed Conference Presentations by Students with Voss as Mentor and Coauthor (41 Total)

- Combs, IR^G, Beal J, **Voss JD**^Ω. 2019. Characterizing the impacts of scleractinian tissue loss disease on corals in southeast Florida. ASLO Aquatic Sciences Meeting. San Juan, PR. Poster Presentation.
- Eckert RJ^G, Studivan MS, **Voss JD**^Ω. 2019. Populations of the coral species *Montastraea cavernosa* lack vertical connectivity on the Belize Barrier Reef. ASLO Aquatic Sciences Meeting, San Juan, PR. Poster Presentation.
- Shilling EN^G, Beal J, **Voss JD**^Ω. 2019. Implementing disease intervention strategies on corals in the southeast Florida Reef Tract and assessing their potential impact on mucus microbial communities. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico. Poster presentation.
- Sturm AB^G, González Méndez J^G, Studivan MS, Eckert RJ^G, Dodge DL, Chei E^U, González Díaz SP^Ω, **Voss JD**^Ω. 2019. Assessing population connectivity of the coral species, *Montastraea cavernosa*, across local and regional scales in Cuba and the Tropical Western Atlantic. ASLO Aquatic Sciences Meeting, San Juan, PR. Oral Presentation.
- Shilling EN^G, Beal JB, **Voss JD**^Ω. 2019. Intervention strategies for diseased corals in Southeast Florida and potential impacts on mucus microbial communities. Indian River Lagoon Symposium, Fort Pierce, FL. **Awarded Outstanding Graduate Student Presentation.**
- Combs IR^G, Beal JB, **Voss JD**^Ω. 2019. Impacts of scleractinian tissue loss disease on corals in Southeast Florida. Indian River Lagoon Symposium, Fort Pierce, FL. **Awarded Outstanding Graduate Student Poster.**
- Sturm AB^G, Gonzalez Mendez J^G, Eckert RJ^G, Chei E^U, Dodge DL^G, Studivan MS^G, Gonzalez Diaz SP, **Voss JD**^Ω. 2018. Assessing population connectivity of the coral species, *Montastraea cavernosa*, across various spatial scales in Cuba and the Tropical Western Atlantic. MarCuba Conference. Havana, Cuba. Poster presentation.
- Studivan MS^G, **Voss JD**^Ω. 2018. Mesophotic-omics: integrating transcriptomics, transplants, and population genomics to understand connectivity of coral reefs in the Gulf of Mexico. Mesophotic Coral Reef Ecosystems Gordon Research Conference, Lewiston, ME. Poster. **Awarded Best Graduate Student Poster.**
- Sturm AB^G, González Méndez J^G, Eckert RJ^G, Studivan MS^G, González Díaz SP, and **Voss JD**^Ω. 2018. Assessing population connectivity of the coral species, *Montastraea cavernosa*, across various spatial scaled in Cuba and the Tropical Western Atlantic. Benthic Ecology Meeting, Corpus Christi, TX. Mar 27-30, 2018. Poster presentation. **Awarded Best Graduate Student Poster.**
- Eckert RJ^G, Studivan MS^G, **Voss JD**^Ω 2018. Breaking point: population genetics reveal a lack of vertical connectivity of *Montastraea cavernosa* on the Belize Barrier Reef. 47th Annual Benthic Ecology Meeting, Corpus Christi, TX. Oral Presentation.
- Combs I^G, **Voss JD**^Ω. 2018. White blotch disease impacts on corals in Southeast Florida. 47th Annual Benthic Ecology Meeting, Corpus Christi, TX. Poster Presentation.
- Studivan MS^G, **Voss JD**^Ω. 2017. A depth of differences? Transplants and transcriptomic analyses of shallow and mesophotic corals. European Coral Reef Symposium, Oxford, UK. Oral Presentation.

- Studivan MS^G, **Voss JD^D**. 2017. Integrating population genetics and gene expression profiling to describe connectivity of a depth generalist coral species in the Gulf of Mexico and West Florida Shelf. 38th Meeting of the United States Coral Reef Task Force, Fort Lauderdale, FL. Poster Presentation.
- Studivan MS^G, **Voss JD^D**. 2017. Population genetics & gene expression reveal broad connectivity among shallow & mesophotic reefs in the Gulf of Mexico. Benthic Ecology Meeting, Myrtle Beach, SC. Oral Presentation.
- Studivan MS^G, O'Neal G^U, **Voss JD^D**. 2017. Plasticity, ecomorphs, & adaptation? *Montastraea cavernosa* has shallow & depth-generalist morphotypes across mesophotic reefs in the Gulf of Mexico. Benthic Ecology Meeting, Myrtle Beach, SC. Oral Presentation.
- Dodge DL^G, Beal J, **Voss JD^D**. 2017. Investigating population genetics and gene expression of scleractinian coral in a highly variable environment along the northern Florida Reef Tract. 46th Benthic Ecology Meeting. Oral Presentation. **Awarded Best Graduate Student Poster.**
- Studivan MS^G, **Voss JD^D**. 2017. Gene flow in the twilight zone: assessing genetic connectivity of a depth generalist coral species across shallow and mesophotic reef ecosystems in the Gulf of Mexico and Caribbean. Global Biodiversity Genomics Conference, Washington, DC. Poster Presentation.
- Dodge DL^G, **Voss JD^D**. 2017. Investigating population genetics and gene expression of scleractinian coral in a highly variable environment along the northern Florida Reef Tract. 2017 Inaugural Genomic Biodiversity Conference. Washington, D.C. Poster Presentation.
- Dodge DL^G, Beal JB, and **Voss JD^D**. Investigating impacts of estuarine discharge within the St. Lucie Watershed Basin and IRL System on local coral reef ecosystems. 2017 Indian River Lagoon Symposium. Oral Presentation. February 2017.
- Studivan MS^G, **Voss JD^D**. 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. **Awarded Best Graduate Student Presentation.**
- Polinski JM^G, **Voss JD^D**. 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^G, **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 DL^G, **Voss JD^D**. 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.
- Polinski JM^G, **Voss JD^D**. 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 MS^G, **Voss JD^D**. 2015. Connectivity and Plasticity of Mesophotic Corals in the Gulf of Mexico. Benthic Ecology Meeting, Quebec City, Canada, Mar 4-8, 2015. Poster presentation. **Awarded Outstanding Graduate Student Poster.**

- Polinski JM^G, **Voss JD**^Q. 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^U, De Leon S, Parsons R, **Voss JD**^Q. Antibiotic resistance in bacteria following the sewage outfalls of Bermuda. Benthic Ecology Meeting, Quebec City, Canada, Mar 4-8, 2015. Poster.
- Shatters A^G, **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 MS^G, **Voss JD**^Q. 2015. Connectivity and Plasticity of Mesophotic Corals in the Gulf of Mexico. Florida Atlantic University Graduate Research Symposium, Mar. 13, 2015. Poster.
- Polinski JM^G, **Voss JD**^Q. 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^G, **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^U, **Voss JD**^Q. 2015. Assessing Population Genetics of *Montastraea cavernosa* in South Florida. HBOI Summer Intern Symposium. July 30, 2015
- Weinheimer A^U, **Voss JD**^Q. 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 CN^G, **Voss JD**, Beal J, Williams M^U, Sproles A^U, Polinski J^U. 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 MS^G, **Voss JD**^Q. 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 CN^G, **Voss JD**^Q. 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^U, **Voss JD**^Q. 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.

Non-Refereed Invited Presentations by Voss (35 Total)

- Voss JD**. 2018. Florida Coral Disease Outbreak Update. South Atlantic Fisheries Management Council, Charleston, SC. May 2018.
- Voss JD**. 2018. Omics in the Twilight Zone: Molecular Investigations of Mesophotic Coral Reef Ecology. Nova Southeastern University. April 2018
- Voss JD**. 2018. Southeast Florida's Coral Reefs: The Fine Line between Persistence and Devastation. Harbor Branch Ocean Science Lecture Series. March 2018.

- Voss JD.** 2017. Our Coral Reef Communities: Linking Exploration to Conservation. South Florida Marine Research Hub Symposium. Dec 2017.
- Voss JD.** 2017. Linking Exploration to Conservation in Southeast Florida. Ft. Lauderdale International Boat Show. Dec 2017.
- Voss JD.** 2017. Corals of Cuba's Twilight Zone. Cuban Coral Reefs Collaborative Workshop. Dec 2017.
- Voss JD.** 2017. Fate Tracking and Transcriptomics on the Northern Florida Coral Reef Tract. Southeast Florida Coral Reef Initiative Meeting. Nov 2017.
- Voss JD.** 2017. Mesophotic Coral Reef Ecosystems Update. Cooperative Institute for Ocean Exploration, Research, and Technology annual meeting. Nov 2017.
- Reed J, Diaz MC, **Voss JD.** 2017. Cuba's Twilight Zone Reefs. Harbor Branch Science Seminar Series. Oct 2017. Three part oral presentation including all three authors.
- Voss JD.** 2017. Rock Solid? The Fine Line between Persistence and Devastation on Coral Reefs in Southeast Florida. Harbor Branch Science Seminar Series. Oct 2017.
- Voss JD.** 2016. Coral Characterization and Connectivity: Integrating Field and Molecular Techniques for Exploration and Conservation. CIOERT Invited Seminar. Sept 21, 2016
- Voss JD.** 2016. Project CLOUD: Comprehensive Landscape Observation via Unmanned Drone. Harbor Branch Ocean Science Lecture Series. Nov 30, 2016.
- 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. CIOERT ICRS Mini-Symposium at FAU Harbor Branch. July 29, 2016.
- 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,** 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 (22 total, 17 as lead PI, >\$2.4 million to date)

- Voss, JD.** Intervention and fate tracking for corals affected by scleractinian tissue loss disease in the northern Florida Reef Tract. Florida Department of Environmental Protection. \$76,870. 2018-2019. PI.
- Voss JD, Pomponi S.** 2018. Sharing Flower Garden Banks with the World through Telepresence. Subaward through Global Foundation for Ocean Exploration (FFT from NOAA Sanctuaries). \$85,500 to FAU. Jan 2019-Dec 2021. PI.
- Voss JD.** 2018. Connectivity of Coral Ecosystems in the Northwestern Gulf of Mexico. Subaward from Lehigh University (FFT from NOAA NCCOS). \$130,581 to FAU. Aug 2019-August 2023. PI.
- Voss JD.** 2018. Fate tracking, molecular investigation, and amputation assessment of white blotch disease on corals in the northern Florida Reef Tract. Florida Department of Environmental Protection. \$60,995. January-June 2018. PI.

- Voss JD**, Dodge D^c. Knauss Marine Policy Fellowship. Florida Sea Grant (NOAA). \$61,500. Feb 2018 - Feb 2019. Nominal PI, fellowship awarded to Ms. Dodge.
- Voss JD**. 2017. Southeast Florida Reef-Wide Coral Disease Surveys: Martin and Palm Beach Counties. Florida Department of Environmental Protection. \$28,513. October 2017 - January 2018. PI.
- Voss JD**. 2017. Freshwater Discharge and Disease Impacts on Coral Reefs: Implications for Watershed Management in Southeast Florida. Environmental Protection Agency. \$69,926. Nov 2017 - October 2018. PI.
- 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. October 2016 – March 2018. PI.
- Voss JD**, Beal J. 2014. Estuarine impacts on coral reef health and the implications for water resource management in Southeast Florida. Florida Sea Grant. \$144,948. Feb 2014 - Jan 2016. PI.
- Clark R, Schmahl GP, Hickerson E, Taylor C, Piniak P, **Voss JD**. 2012. Baseline assessment of fish and benthic communities of the Flower Garden Banks. NOAA Coral Reef Conservation Program. \$256,000 for ship support for Voss's CIOERT Mesophotic project. July 2012- July 2014. Co-PI.
- Hanisak MD, Reed J, Pomponi, **Voss JD**, et al. 2011. EPP - Connectivity - Pulley Ridge: Population connectivity of the Pulley Ridge - South Florida coral reef ecosystem: processes to decision-support tools. Subaward from University of Miami (FFT NOAA NCCOS). \$501,248 to FAU. Sept 2011 - Feb 2018. Co-PI.
- Pomponi S, **Voss JD**, etc. 2009, 2014. Cooperative Institute for Ocean Exploration Research and Technology, NOAA, July 1, 2009 - June 30, 2020. Executive Director (July 2018-present); PI for mesophotic projects (2009-present). Total CIOERT funding to date \$10,893,825. Funding to Voss, \$871,346. Added value of ship time awarded from NOAA to Voss as PI or Co-PI, \$938,692.
- Voss JD**, Edge SE. 2010. 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. 2010. 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. 2010. 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. 2009. 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. 2008. Advanced Molecular Techniques for Quantifying Coral Health Workshop. Florida Sea Grant (NOAA). \$3800, May 2008. PI.
- Hanisak MD, Reed J, **Voss JD**. 2007. The Robertson Coral Reef Program. Banbury Foundation. \$1,000,000. Jan 2007 - Dec 2017. Investigator.
- Voss JD**. 2004. 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.** 2004. Coral disease dynamics and environmental drivers in Bocas del Toro, Panama. Smithsonian Tropical Research Institute Fellowship, \$1,304, April 2004.
- Voss JD, Richardson LL.** 2002. 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, \$7,735; 2004, \$11,304; 2003, \$8,698; 2002, \$9,040). PI.
- Voss JD.** 2002. Environmental Protection Agency Science to Achieve Results Fellowship, \$53,390, 2002-2005.

Intramural (6 Total, 4 as lead PI)

- Voss JD.** 2015. Project CLOUD: Comprehensive Landscape Observation via Unmanned Drone. Harbor Branch Oceanographic Institute Foundation Save Our Seas Specialty License Plate Program. \$17,612. May1, 2015-October 31, 2015. PI.
- Voss JD, Hanisak MD, Edge SE.** 2011. Estuarine Impacts on St. Lucie Reef: Determining the effects of changing resource management on Florida's northernmost coral reef. Harbor Branch Oceanographic Institute Foundation Save Our Seas Specialty License Plate Program. \$200,000. July 1, 2011 – December 31, 2015. PI.
- Edge SE, **Voss JD.** 2011. Molecular Responses of Coral Larvae. Harbor Branch Oceanographic Institute Foundation Save Our Seas Specialty License Plate Program. \$40,269. July 1, 2011-June 30, 2013. Co-PI.
- Edge SE, Pomponi S, **Voss JD.** 2011. Molecular Responses of Sponges to Environmental Stressors. Harbor Branch Oceanographic Institute Foundation Save Our Seas Specialty License Plate Program. \$116,008. July 1, 2011-Dec 31, 2013. Co-PI.
- Voss JD.** 2006. Eckerd College Faculty Development Grant \$700. 2006-2007.PI.
- Voss JD.** 2005. Florida International University Dissertation Fellowship. \$18,000. 2005-2006.

TEACHING EXPERIENCE

2007-present Florida Atlantic University, Harbor Branch Oceanographic Institution

Undergraduate courses **co-developed and co-taught:**

- Marine Biodiversity + Lab (OCB 4032, 4032L); taught 10 times
- Marine Microbial & Molecular Biology + Lab (OCB 4525, 4525L); taught 7 times
- Field Studies in Marine Science and Lab (BSC 4930, 4930L); taught 5 times

Graduate courses **developed and taught:**

- Coral Reef Ecosystems and Lab (OCB 6266, 6266L); taught twice
- Marine Molecular Ecology (BSC6936); taught 2 times
- Ocean Exploration (BSC 6936); taught 1 time
- Marine Molecular Biology (BSC 6465); taught 1 time

Directed Independent Studies courses **developed and taught:**

Coral Population Genetics (BSC 6905)

Coral-Algal Symbiont Genetics (BSC 6905)

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)

Real-time 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:

Master's Thesis (BSC 6971)

Masters Proposal (BSC 6905)

Masters Defense (BSC 6905)

Dissertation (BSC 7980)

Advanced Research in Integrative Bio (BSC 7978)

Advance Molecular Technologies for Quantifying Coral Health: a Workshop for Florida's Reef Researchers," **developed and taught** a week long workshop offered at FAU Harbor Branch for 16 scientists supported by Florida Sea Grant

PCR and Gel Imaging Workshops for the Lincoln Park Academy and the Westwood Marine and Oceanographic Academy; 2 day course **developed and taught** to more than 30 high school classes

2006-2007 Eckerd College, Department of Marine Science

Undergraduate courses **developed and taught:**

Marine Invertebrate Biology and Lab (MS189, MS189L);
taught 3 sections

Biological Oceanography (MS 209); taught 1 section

Coral Reef Ecosystems (MS 318; new course); taught 1 section

Senior Seminar: Threats to Marine Ecosystems (MS 410);
taught 1 section

Florida's Barrier Islands (WT2E; new course); taught 1 section

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 (3 sections), General Microbiology Lab (9 sections), Introductory Microbiology Lab (3 sections)
- 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)

Postdoctoral Research Associates Supervised (1)

Michael Studivan, 2018-present, Cooperative Institute for Ocean Exploration, Research, and Technology postdoctoral fellow.

Graduate Students Supervised (9)

- Erin Shilling, 2018-present, FAU Marine Science and Oceanography Masters student, *Coral disease intervention success and impacts*. Indian River Lagoon Fellow, FAU Provost Fellow.
- Alexis Sturm, 2017-present, FAU Integrative Biology PhD student. *Population structure, genetic connectivity, and symbiont assemblages of shallow and mesophotic coral communities in the Tropical Western Atlantic*. NSF Graduate Research Fellow, Florida Sea Grant Fellow, Women Diver Hall of Fame scholarship recipient, FAU Presidential Fellow.
- Ian Combs, 2017-present, FAU Biology Masters student. *Characterizing the impacts of scleractinian tissue loss disease on corals in SE Florida*. Indian River Lagoon Fellow.
- Ryan Eckert, 2017-present, FAU Biology Masters student. *Population structure and symbioses variations over depth on the Belize Barrier Reef*. PADI Foundation Fellow.
- Danielle Dodge, 2015-2017, FAU Biology Masters student. *Comparative field and molecular studies of coral health on freshwater impacted reef*. Indian River Lagoon Fellow. Currently NOAA Knauss Fellow
- Alycia Shatters, 2014-2017, FAU Biology Masters student. *Effects of Estuarine Discharge Water and Temperature on Corals and their Symbionts*. Indian River Lagoon Fellow. Currently employed by FDEP Coral Program.
- Jennifer Polinski, 2014-2016, FAU Biology Masters Student. *Investigating Algal Symbionts in Mesophotic and Shallow Corals*. Currently employed by Gloucester Marine Genomics Institute.
- Michael Studivan, 2012-2018, FAU Integrative Biology PhD student. *Connectivity and Plasticity of Mesophotic Corals in the Gulf of Mexico*. MTS Fellow. Current Postdoc at FAU Harbor Branch.
- Courtney Klepac, 2012-2014, FAU Biology Masters student. *Characterization of Symbiotic Algae, Genus Symbiodinium, in Corals at St. Lucie Reef, FL*. Currently pursuing PhD at ODU.

Graduate Student Committee Work (6)

- David Bradshaw, 2016-present, FAU PhD Integrative Biology student
- Carlie Perricone, 2015-2018, FAU MS Biology student
- Megan Conkling, 2014-2017, FAU MS Biology student

Lucas Jennings, 2012-2015, FAU MS student

Joshua Filina, 2010-2014, FAU MS student

Nitzan Soffer, 2010-2011, Florida International Univ. PhD student, transferred to Oregon State

Undergraduate Students Supervised (18)

Emily Chei, 2018, HBOI Summer Intern. *Assessing Population Connectivity of the coral, Montastraea cavernosa, along the northern Florida Reef Tract.*

Haley Clinton, 2018, FAU Honors Student. *3D structural modeling of Montastraea cavernosa skeletal fragments.*

Diana Perez, 2018, FAU Honors Student. *Assessment of Symbiodinium communities in Montastraea cavernosa following mesophotic to shallow transplant.*

Ashley Reaume, 2017, HBOI Summer Intern. *Optimization of extract and amplification of zooxanthellae DNA from TriZOL preservative.*

Gillian O'Neal, 2016, HBOI Summer Intern. *Morphometric analysis of Montastraea 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.*

Research Staff Supervised (6)

2015-2017 Patrick Gardner, Coordinator, Research Programs and Service (lab manager)
2014-2016 Amanda Alker, Laboratory Technician
2013 Thomas Camacho, Laboratory Technician
2012-2014 Maureen Williams, Laboratory Technician
2012 Ashley Sproles, Laboratory Technician
2010-2014 Lisa Cohen, Biological Scientist

SERVICE AND PROFESSIONAL DEVELOPMENT

Institutional Service

Florida Atlantic University

2018 FAU Dive And Boating Safety Officer Search Committee
2016- present FAU representative for South Florida Marine Research Hub
Founding member of consortium designed to advance marine science and research among the 4 major universities in Southeast Florida
2016- present FAU Integrative Biology Doctoral Program Admission Committee
Biannual evaluation of applicants for our core doctoral program
Contributed to creation of Marine Biology track
2016- present FAU Annual Three Minute Thesis Competition
Co-coordinator for Harbor Branch heats, grad student coach
2015- 2016 FAU Harbor Branch Bioinformatics Faculty Search Committee
2015- present FAU Harbor Branch Faculty Assembly
Education subcommittee secretary, Research subcommittee member
2014- present Master of Marine Science & Oceanography Program & Admissions Committee
Development of MSO curriculum and program guidelines
Biannual valuation of applicants and students eligible for fellowships
2012- 2018 FAU Dive and Boating Safety Committee
Led expansion of FAU into technical diving
Monthly meetings ensure program compliance with AAUS guidelines
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
Evaluated Wilkes Honors College and honors programs to promote undergraduate excellence at FAU

Eckerd College

2006-2007 Scuba Club Faculty Advisor, 2006-2007

2006-2007 Honors Curriculum Development Committee, 2006-2007

Professional Service

2018- present Joint Committee on the Southeast Florida Reef Tract

Government, agency, and research committee convened to develop and prioritize legislative actions to promote health and sustainability of Southeast Florida's coral reefs and improved coastal water quality

2018- present Florida Coral Disease Advisory Council

Panel of experts organizer by Florida Department of Environmental Protection
To provide input on coral disease outbreak research and intervention

2016-2017 NSF Panelist in Biological Sciences Directorate

2015-present Frontiers in Marine Science Review Editor for Marine Fisheries, Aquaculture and Living Resources

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 (2014-2016);
Coordinator for quarterly TAC meetings to provide recommended management actions; Participation in the "Our Florida Reefs" community working group process

2012, 2016 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, judge for student presentations/ 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*; *Scientific Reports*; *Diseases of Aquatic Organisms*; *PLoS One*; *Bulletin of Marine Science*; *Aquatic Toxicology*; *Ecology*; *TREE*; *JEMBE*; *Microbial Ecology*; *FEMS Microbiology Ecology*; *Bioscience*; *Molecular Ecology*; *Frontiers in Marine Science*; etc.

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; Harbor Branch Oceanographic Institute Foundation

Professional Organizations

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
2007-present National Ocean Science Bowl, Moderator and Science Judge
2002-2009 Bahamas Reef Environmental Education Foundation
2004-2014 Friends of the Environment, Abaco, Bahamas

Certifications

AAUS Scientific Trimix Diver, 190 foot depth rating and 1500+ career scientific dives
Global Underwater Explorers Fundamentals Diver
TDI Trimix Diver, Introduction to Technical Diving, Advance Nitrox, Decompression Procedures, Extended Range
PADI Open Water and Nitrox Instructor, Advanced Gas Blender, Emergency First Response Instructor
NAUI Divemaster, Nitrox Diver, Rescue Diver
DAN Oxygen Administration and Diving Emergencies
Coast Guard Auxiliary Boating Safety and Seamanship
* 24 years experience in operating power boats (up to 42')
* 18 years sailing experience including racing and advanced keelboat certification (up to 42')

Outreach Videos

25 outreach videos based on our laboratory's research including:
"Exploring Twilight Reefs of the Flower Garden Banks." Video selected by BLUE Oceans Film Competition for screening. 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 film festivals/ competitions in 2016. <https://www.youtube.com/watch?v=PynakC9ipkk>
"Freshwater discharges impact the Indian River Lagoon and St. Lucie Inlet Preserve State Park." Video receive national press coverage and more than 9000 views. Screened in Florida Congressional meetings with Senator Joe Negron. <https://youtu.be/1FgBon2CAwM>

All Voss lab videos available at <https://www.youtube.com/channel/UC2Ke1UnQ0upVffagcgPmfpw/videos>

Selected Media Coverage

Coastal Water Quality and Coral Health (2013-present)

"Black water plume from St. Lucie River threatens offshore coral reefs" TC Palm Treasure Coast Newspapers
"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 >40 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, 2010

“Marine Researchers Pitch Projects To Boaters At Fort Lauderdale Boat Show” WRLN

FAU Harbor Branch Exploration Command Center coverage by NOAA, TC Palm, and FAU

Oculina Coral Reefs (2015-2016)

“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 Beach News

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

“In search of Oculina” Indian River Press Journal

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

2018 *RV Manta*. CIOERT Coral Connectivity and Habitat Characterization: East, West, McGrail, and Bright Banks. Collaboration with Flower Garden Banks National Marine Sanctuary III. Technical diving. July 8-13, 2018. PI and Chief Scientist.

2017 *RV Walton Smith*. Cuba’s Twilight Zone Reefs and Their Regional Connectivity. May 15- June 13, 2017. Co-PI and coral research lead.

Smithsonian Carrie Bow Cay, Belize. CIOERT Mesophotic sampling and reciprocal transplant experiment. March 22-29, 2017. PI.

2016 *RV Manta*. CIOERT Coral Connectivity and Habitat Characterization: East, West, McGrail, and Bright Banks. Collaboration with Flower Garden Banks National Marine Sanctuary III. Technical diving. Sept 25-30, 2016. PI and Chief Scientist.

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 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. Investigator assisting with 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.

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. Co-PI.

- 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, 2008. 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.

HONORS AND AWARDS

2011 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 Graduate in the Biological Sciences

2000 Order of Omega, National Greek Leadership Honor Society

2000 *Phi Kappa Phi*, National Scholastic Honor Society

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