

**JOSHUA D. VOSS, PH.D.**  
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**NARRATIVE SUMMARY**

Dr. Joshua Voss is an Associate Research Professor at Florida Atlantic University's Harbor Branch Oceanographic Institute. His primary research 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 1700 scientific dives and led more than 40 scientific expeditions. He has contributed 42 peer-reviewed publications, delivered >50 first author scientific conference presentations, mentored 16 graduate students and 21 undergraduate students, and been awarded 37 grants (30 as lead PI). Dr. Voss teaches in both the undergraduate and graduate biology and marine science programs at FAU. He has served as the Executive Director of NOAA's Cooperative Institute for Ocean Exploration, Research, and Technology, as chair of the Harbor Branch Faculty, and on several agency teams including the South Atlantic Fisheries Management Council Coral Advisory Panel and the Southeast Florida Coral Reef Initiative as 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.

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**EDUCATION**

- 2001-2006     **Florida International University**, Miami, FL
- Doctor of Philosophy in Biological Sciences
  - Dissertation: *Coral disease dynamics and environmental drivers in the Northern Florida Keys and Lee Stocking Island, Bahamas*, advisor Dr. Laurie Richardson
  - EPA STAR, NFWF Conservation, and FAU Dissertation Year Fellowships
- 1997-2001     **Elon University**, Elon, NC
- Bachelor of Science in Biology, *Magna Cum Laude*, with minors in Chemistry, Philosophy, and Sociology
  - Elon Honors and Science Fellowships
  - Outstanding Student in the Biological Sciences, 2000 & 2001
  - 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

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- 2020-present **Associate Research Professor**, Harbor Branch Oceanographic Institute, Florida Atlantic University
- 2022-2023 **Chair** Harbor Branch Faculty Assembly (rotating elected position)
- 2018-2022 **Executive Director**, NOAA Cooperative Institute for Ocean Exploration, Research, and Technology
- 2009-2019 **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 **Teaching Assistant**, Department of Biology, Elon University
- 1999 **Research Assistant**, Duke University Marine Laboratory

## PUBLICATIONS AND PRESENTATIONS

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- <sup>G</sup> Indicates graduate student supervised by Voss
- <sup>U</sup> Indicates undergraduate student supervised by Voss
- <sup>P</sup> Indicates post-doctoral researcher supervised by Voss
- <sup>Q</sup> Indicates senior authorship status

## PEER-REVIEWED PUBLICATIONS

42. Ulmo-Díaz G, Castellanos Gell J, Casane D, Sturm AB<sup>G</sup>, **Voss JD**, García-Machado E. 2023. Population genetics of Cuba's scleractinian corals. In: Zlatarski VN, Reed JK, Pomponi SA, Brooke S, Faarington S (eds) Coral reefs of Cuba, Springer Nature.
41. Reed JK, González-Díaz P, **Voss JD**, Busutil L, Diaz MC , Pomponi SA, Farrington S, Cobián-Rojas D, David A , Martínez-Daranas B, Hanisak MD, González Mendez J, Sturm AB<sup>G</sup>, González Sánchez PM, García Hernández MR, Fernández JV , Jiang M, Laverick JH, Zlatarski VN. 2023. Mesophotic coral ecosystems of Cuba. In: Zlatarski VN, Reed JK, Pomponi SA, Brooke S, Faarington S (eds) Coral reefs of Cuba, Springer Nature.
40. Shilling EN<sup>G</sup>, Eckert RJ<sup>G</sup>, Sturm AB<sup>G</sup>, **Voss JD**<sup>Q</sup>. 2023. *Porites astreoides* coral populations demonstrate high clonality and connectivity in southeast Florida. Coral Reefs. <https://link.springer.com/article/10.1007/s00338-023-02417-0>

39. Studivan MS<sup>P</sup>, Eckert RJ<sup>G</sup>, Shilling EN<sup>G</sup>, Soderberg N, Enochs I, **Voss JD**<sup>Q</sup>. 2023. Stony coral tissue loss disease intervention with amoxicillin leads to a reversal of disease-modulated gene expression pathways. *Molecular Ecology*, 1-20. <https://doi.org/10.1111/mec.17110>.
38. Cahill BV, Eckert RJ<sup>G</sup>, Bassos-Hull K, Ostendorf TJ, **Voss JD**, DeGroot BC, Ajemian MJ. 2023. Diet and Feeding Ecology of the Whitespotted Eagle Ray (*Aetobatus narinari*) from Florida Coastal Waters Revealed via DNA Barcoding. *Fishes*, 8(8), 388. <https://doi.org/10.3390/fishes8080388>.
37. Rosales SM, Huebner LK, Evans JS, Apprill A, Baker AC, Becker CC, Bellantuono AJ, Brandt ME, Clark AS, del Campo J, Dennison CE, Huntley NE, Kellogg CA, Medina M, Meyer JL, Muller EM, Rodriguez-Lanetty M, Salerno JL, Schill WW, Shilling EN<sup>G</sup>, Stewart J, **Voss JD**. 2023. A meta-analysis of the stony coral tissue loss disease microbiome finds key bacteria in lesions and unaffected tissue of diseased colonies. *ISME Communications*. <https://doi.org/10.1038/s43705-023-00220-0>.
36. Johnston MA, Studivan MS, Enochs IC, Correa AMS, Besemer N, Eckert RJG, Edwards K, Hannum R, Hu X, Nuttall M, O'Connell K, Palacio-Castro AM, Schmahl GP, Sturm ABG, Ushijima B, **Voss JD**. 2023. Coral disease outbreak at the remote Flower Garden Banks, Gulf of Mexico. *Front. Mar. Sci.* <https://doi.org/10.3389/fmars.2023.1111749>.
35. Traylor-Knowles N, Baker AC, Beavers KM, Garg N, Guyon JR, Hawthorn A, MacKnight NJ, Medina M, Mydlarz LD, Peters EC, Stewart JM, Studivan MS P, **Voss JD**. 2022. Advances in coral immunity 'omics in response to disease outbreaks. 2022. *Front. Mar. Sci.* 9:952199. <https://doi.org/10.3389/fmars.2022.952199>.
34. Sturm AB<sup>G</sup>, Eckert RJ<sup>G</sup>, Carreiro AM<sup>G</sup>, Simões N, **Voss JD**<sup>Q</sup>. 2022. Depth-dependent genetic structuring of a depth-generalist coral and its Symbiodiniaceae algal communities at Campeche Bank, Mexico. *Frontiers in Marine Science*. <https://doi.org/10.3389/fmars.2022.835789>.
33. Sturm AB<sup>G</sup>, Eckert RJ<sup>G</sup>, Carreiro AM<sup>G</sup>, **Voss JD**<sup>Q</sup>. 2022. Population genetic structure of the broadcast spawning coral, *Montastraea cavernosa*, demonstrates refugia potential of upper mesophotic populations in the Florida Keys. *Coral Reefs*. <https://doi.org/10.1007/s00338-021-02112-y>.
32. Martindale RC, Holstein D, Knowlton N, **Voss JD**, Weiss AM, Correa AMS. 2021. Gulf of Mexico Reefs: Past, Present and Future. *Frontiers in Marine Science*. <https://doi.org/10.3389/fmars.2021.713058>.
31. Combs IR<sup>G</sup>, Studivan MS<sup>P</sup>, Eckert RJ<sup>G</sup>, **Voss JD**<sup>Q</sup>. 2021. Quantifying impacts of stony coral tissue loss disease on corals in Southeast Florida through surveys and 3D photogrammetry. *PLoS One*. <https://doi.org/10.1371/journal.pone.0252593>.
30. Studivan MS<sup>G,P</sup>, Shatters A<sup>G</sup>, Dodge DL<sup>G</sup>, Beal J, **Voss JD**<sup>Q</sup>. 2021. Synergistic effects of thermal stress and estuarine discharge on transcriptomic variation of *Montastraea cavernosa* corals in southeast Florida. *Frontiers in Marine Science*. <https://doi.org/10.3389/fmars.2021.662220>.
29. Shilling EN<sup>G</sup>, Combs IR<sup>G</sup>, **Voss JD**<sup>Q</sup>. 2021. Assessing the effectiveness of two intervention methods for stony coral tissue loss disease on *Montastraea cavernosa*. *Scientific Reports*. <https://doi.org/10.1038/s41598-021-86926-4>.

28. Sturm AB<sup>G</sup>, Eckert RJ<sup>G</sup>, González Méndez J, González Díaz SP, **Voss JD**<sup>Q</sup>. 2020. Population genetic structure of the great star coral, *Montastraea cavernosa*, across the Cuban archipelago with comparisons between microsatellite and SNP markers, *Scientific Reports*. 10:15432. <https://doi.org/10.1038/s41598-020-72112-5>.
27. Studivan MS<sup>G,P</sup>, **Voss JD**<sup>Q</sup>. 2020. Transcriptional plasticity of mesophotic corals among natural populations and transplants of *Montastraea cavernosa* in the Gulf of Mexico and Belize. *Molecular Ecology*. <https://doi.org/10.1111/mec.15495>.
26. Eckert RJ<sup>G</sup>, Reaume AM, Sturm AB<sup>G</sup>, Studivan MS<sup>G,P</sup>, **Voss JD**<sup>Q</sup>. 2020. Depth influences Symbiodiniaceae associations among *Montastraea cavernosa* corals on the Belize Barrier Reef. *Frontiers in Microbiology* 11:518. <https://doi.org/10.3389/fmicb.2020.00518>.
25. **Voss JD**, Pomponi S. 2020. Cooperative Institute for Ocean Exploration, Research, and Technology. In Raineault, NA, and J Flanders (eds) *New frontiers in ocean exploration*. *Oceanography* 33(1) <https://www.jstor.org/stable/27218287>.
24. Dodge DL<sup>G</sup>, Studivan MS<sup>G,P</sup>, Eckert RJ<sup>G</sup>, Chei E<sup>U</sup>, Beal J, **Voss JD**<sup>Q</sup>. 2020. Population structure of the scleractinian coral, *Montastraea cavernosa*, in the northern Florida Reef Tract. *Bulletin of Marine Science*. <https://doi.org/10.5343/bms.2019.0074>.
23. Eckert RJ<sup>G</sup>, Studivan MS<sup>G,P</sup>, **Voss JD**<sup>Q</sup>. 2019. Populations of the coral species *Montastraea cavernosa* on the Belize Barrier Reef lack vertical connectivity. *Scientific Reports* 9:7200 <https://doi.org/10.1038/s41598-019-43479-x>.
22. **Voss JD**, Pomponi S. 2019. Cooperative Institute for Ocean Exploration, Research, and Technology. In Raineault, NA, and J Flanders (eds) *New frontiers in ocean exploration*. *Oceanography* 32(1), 119 doi: 10.5670/oceanog.2019.supplement.01 <https://www.jstor.org/stable/10.2307/27218254>.
21. Studivan MS<sup>G</sup>, Milstein G<sup>U</sup>, **Voss JD**<sup>Q</sup>. 2019. *Montastraea cavernosa* corallite structure demonstrates distinct morphotypes across shallow and mesophotic depth zones in the Gulf of Mexico. *PLoS ONE*. <https://doi.org/10.1371/journal.pone.0203732>.
20. 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, KA, Bridge, T (eds) *Mesophotic Coral Ecosystems of the World*. Springer, New York. [https://doi.org/10.1007/978-3-319-92735-0\\_4](https://doi.org/10.1007/978-3-319-92735-0_4).
19. Gress E, **Voss JD**, Eckert RJ<sup>G</sup>, 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. [https://doi.org/10.1007/978-3-319-92735-0\\_5](https://doi.org/10.1007/978-3-319-92735-0_5).
18. 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. [https://doi.org/10.1007/978-3-319-92735-0\\_52](https://doi.org/10.1007/978-3-319-92735-0_52).
17. Studivan M<sup>G</sup>, **Voss JD**<sup>Q</sup>. 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>.

16. 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<sup>C</sup>, Drummond F, Jiang M, Pomponi S. 2018. Cuba's mesophotic coral reefs and associated fish communities. *Revista de Investigaciones Marinas* 38:56–125
15. Studivan M<sup>C</sup>, **Voss JD**<sup>a</sup>. 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. <https://doi.org/10.3389/fmars.2018.00152>.
14. Garavelli L, Studivan M<sup>C</sup>, **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. <https://doi.org/10.3389/fmars.2018.00174>.
13. Polinski JM<sup>C</sup>, **Voss JD**<sup>a</sup>. 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. <https://doi.org/10.1007/s00338-018-1701-2>.
12. Klepac CN<sup>C</sup>, Beal J, Kenkel CD, Sproles A<sup>U</sup>, Polinski J<sup>C</sup>, Williams M<sup>U</sup>, Matz M, **Voss JD**<sup>a</sup>. 2015. Seasonal stability of coral-*Symbiodinium* associations in the subtropical coral habitat of St. Lucie Reef, Florida. *Marine Ecology Progress Series* 532:137-151 <https://doi.org/10.3354/meps11369>.
11. **Voss JD**, Williams M<sup>U</sup>, 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 [https://www.ncei.noaa.gov/data/oceans/coris/library/NOAA/CRCP/project/180/FGBNMS\\_tagged-temp.pdf](https://www.ncei.noaa.gov/data/oceans/coris/library/NOAA/CRCP/project/180/FGBNMS_tagged-temp.pdf).
10. Reed JK, Farrington S, Pomponi SA, Hanisak MD, **Voss JD**. 2012. NOAA CIOERT Survey of the Pulley Ridge mesophotic reef ecosystem: Florida Shelf-Edge Exploration II (FLoSEE). [https://repository.library.noaa.gov/view/noaa/993/noaa\\_993\\_DS1.pdf](https://repository.library.noaa.gov/view/noaa/993/noaa_993_DS1.pdf).
9. 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 [https://doi.org/10.1007/978-1-4020-6847-8\\_8](https://doi.org/10.1007/978-1-4020-6847-8_8).
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 <https://www.jstor.org/stable/25256245>.
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 <https://doi.org/10.1111/j.1574-6968.2007.00751.x>.
6. **Voss JD**, Richardson LL. 2006. Nutrient enrichment enhances black band disease progression in corals. *Coral Reefs* 25: 569-576 <https://doi.org/10.1007/s00338-006-0131-8>.

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  
<https://doi.org/10.1111/j.1574-6941.2006.00135.x>.
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  
<https://doi.org/10.1128/AEM.00843-06>.
3. **Voss JD**, Richardson LL. 2006. Coral diseases near Lee Stocking Island, Bahamas: patterns and potential drivers. *Diseases of Aquatic Organisms* 69:33-40 DOI: [10.3354/dao069033](https://doi.org/10.3354/dao069033).
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. [PDF](#).
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  
DOI: [10.3354/meps297147](https://doi.org/10.3354/meps297147).

**PEER-REVIEWED CONFERENCE PRESENTATIONS AND PROCEEDINGS BY VOSS** (Selected shown, 57 total)

- Voss JD**, Eckert RJ<sup>©</sup>, Sturm AB<sup>©</sup>, Reed JK, Hanisak MD, Carreiro A<sup>©</sup>, Studivan MS<sup>©</sup>, Farrington S. 2023. Mesophotic Coral Ecosystems: Exploration, Connectivity, and Conservation in the Gulf of Mexico and Florida. Mesophotic Coral Ecosystems Gordon Research Conference. Ventura, CA. February 2023.
- Voss JD**, Reed JK, Studivan MS<sup>©</sup>, Eckert RJ<sup>©</sup>, Farrington S, Sturm AB<sup>©</sup>, Polinski JM<sup>©</sup>, Cherubin LM, Garavelli L, González Díaz SP, González Méndez J, Hickerson E, Schmahl GP. 2022. Mesophotic Coral Ecosystem Exploration and Characterization in the Gulf of Mexico, Florida, Cuba, and Mesoamerica. International Coral Reef Symposium, Bremen, Germany. Oral Presentation abstract accepted. July 2022.
- Voss JD**, Nathalie-Valette Silver, Shirley Pomponi. 2022. NOAA's Cooperative Institute for Ocean Exploration, Research, and Technology. ALSO Ocean Sciences Meeting. February 2022.
- Voss JD**, Eckert RJ<sup>©</sup>, Shilling EN<sup>©</sup>, Pomponi S, Davis S, Strader M, Brugler M, Schmahl GP, Hickerson E, Loyalvo D. 2022. Using Telepresence to Enhance Exploration and Outreach in Flower Garden Banks National Marine Sanctuary. Benthic Ecology Meeting, Portsmouth NH. April 2022.
- Voss JD**, Eckert RJ<sup>©</sup>, Sturm AB<sup>©</sup>, Shilling EN<sup>©</sup>, Klein A<sup>©</sup>, Bell S<sup>©</sup>. 2022. Advancing Coral Population Genetics to Inform Coral Conservation and Restoration Strategies in Florida and the Gulf of Mexico. Reef Future Meeting, Key Largo. Sept 2022.
- Voss JD**, Eckert RJ<sup>©</sup>, Sturm AB<sup>©</sup>, Johnston M, Schmahl GP. 2022. Update on Unusual Coral Mortality Event in Flower Garden Banks National Marine Sanctuary. Reef Future Meeting, Key Largo. Sept 2022.
- Voss JD**, Reed JK, Studivan MS<sup>©</sup>, Eckert RJ<sup>©</sup>, Farrington S, Sturm AB<sup>©</sup>, Polinski JM<sup>©</sup>, Cherubin LM, Garavelli L, González Díaz SP, González Méndez J, Hickerson E, Schmahl GP. 2022.

Mesophotic Coral Ecosystem Exploration and Characterization in the Gulf of Mexico, Florida, Cuba, and Mesoamerica. International Coral Reef Symposium, Bremen, Germany.

- Voss JD**, Davies S, Brugler M, Schmahl GP, Hickerson H, Eckert RJ<sup>C</sup>, Pomponi S, Ryan M, Lovalvo D. 2022. Using Telepresence to Enhance Coral Reef Exploration in Flower Garden Banks National Marine Sanctuary. Benthic Ecology Meeting, Wilmington, NC. Oral Presentation.
- Voss JD**. 2022. NOAA's Cooperative Institute for Ocean Exploration, Research, and Technology. ASLO Ocean Sciences Meeting.
- Voss JD**, Studivan MS<sup>C</sup>, Eckert RJ<sup>C</sup>, Polinski J<sup>C</sup>, Sturm AB<sup>C</sup>. 2019. Ecology, adaption, and conservation of Mesophotic Coral Ecosystems in the Tropical Western Atlantic. 48th Annual Benthic Ecology Meeting, St. John's, NL, Canada. Oral Presentation.
- Voss JD**, Gonzalez Diaz SP, Gonzalez Mendez J<sup>C</sup>, Sturm AB<sup>C</sup>, Eckert RJ<sup>C</sup>, Studivan MS<sup>C</sup>, 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<sup>C</sup>, Polinski J<sup>C</sup>, 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<sup>C</sup>, Studivan MS<sup>C</sup>. 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<sup>C</sup>, Williams M<sup>U</sup>, 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<sup>U</sup>, 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<sup>U</sup>, Cohen L, Edge S, Klepac C<sup>C</sup>. 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<sup>U</sup>, 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<sup>U</sup>, Cohen L, Klepac C<sup>C</sup>. 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<sup>C</sup>, Sproles A<sup>U</sup>, Williams M<sup>U</sup>. 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<sup>U</sup>, 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<sup>U</sup>, Williams M<sup>U</sup>, Harrison N<sup>U</sup>. 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<sup>U</sup>, Williams M<sup>U</sup>, Harrison N<sup>U</sup>. 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<sup>U</sup>. 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<sup>U</sup>. 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. 38<sup>th</sup> 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. 11<sup>th</sup> 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. 36<sup>th</sup> 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. 33<sup>rd</sup> 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. 8<sup>th</sup> 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. 7<sup>th</sup> 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 32<sup>nd</sup> 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. 10<sup>th</sup> 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. 6<sup>th</sup> 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. 88<sup>th</sup> 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.

#### **NON-REFEREED INVITED PRESENTATIONS BY VOSS (45 total)**

- Voss JD**, Pantoni G<sup>G</sup>, Shilling EN<sup>G</sup>, Eckert RJ<sup>G</sup>, Sturm AB<sup>G</sup>, Klein A<sup>G</sup>, Carreiro A<sup>G</sup>, Davis H<sup>G</sup>, Bell S<sup>G</sup>. 2022. Advancing Coral Reef Research and Resilience in Southeast Florida. FL DEP Disease Advisory Committee. November 2022.
- Voss JD**. 2022. Linking Research and Exploration to Coral Conservation. FAI Integrative Biology Program. October 2022.
- Voss JD**. 2022. NOAA's Cooperative Institute for Ocean Exploration, Research, and Technology: Linking Exploration to Conservation. NOAA Library Science Seminar Series. October 2022.
- Voss JD**. 2022. Coral Reef Ecosystems: Exploration and Conservation. Elliott Museum Science Series. May 2022.
- Voss JD**. 2022. Coral Reef Ecosystems: Linking Research to Conservation and Restoration. FAU Research in Action Series. May 2022.
- Voss JD**. 2022. Coral Reef Ecosystems: Past, Present, and Future. Harbor Branch Ocean Science Lecture Series. April 2022.
- Voss JD**. 2021. Protecting Florida's Coral Reef: Water Quality and Coral Health. Florida Sea Grant 2021 Virtual Water Ambassador Program. June 2021.

- Voss JD.** 2020. Exploring Coral Reef Biodiversity and Connectivity in Flower Garden Banks National Marine Sanctuary. Hosted by NOAA Sanctuaries and Exploring by the Seat of your Pants. June 2020. <https://www.youtube.com/watch?v=eetsWxKeGh0/>
- Voss JD.** 2020. Harbor Branch Behind the Science. June 2020. <https://www.youtube.com/watch?v=bGv-vokHjww>
- Voss JD.** 2020. Heterotrophy and Autotrophy in Marine Species. St. Andrews Academy. Fort Pierce, FL. Feb 2020.
- Voss JD.** 2020. Ocean Exploration: Our Remarkable Coral Reefs. Presentation to Indian River Citrus League. Jan 2020.
- Voss JD.** 2019. CYCLE: Scleractinian Coral and Sponge Connectivity. NOAA RESTORE and NCCOS meeting. St. Petersburg, FL. Dec 2019.
- Voss JD.** 2019. Stony Coral Tissue Loss Disease: Characterizing coral responses and optimizing intervention strategies through transcriptomics. NOAA OAR Panel. Washington, DC. Oct 2019.
- Voss JD,** Pomponi S. 2019. NOAA's Cooperative Institute for Ocean Exploration, Research, and Technology. Presentation to OER 5 year Review Panel. Narragansett, RI. Oct 2019.
- Voss JD.** 2019. Experimental Coral Disease Interventions Update. Florida Coral Disease Advisory Committee. July 2019.
- Voss JD.** 2019. Flower Garden Banks Telepresence: CIOERT Coral & Sponge Ecosystems Approach. NOAA Sanctuaries. March 2019.
- Voss JD.** 2019. Coral Disease Monitoring and Intervention Update. Florida Coral Disease Advisory Committee. March 2019.
- Voss JD.** 2018. Florida's Integrated Coastal Observatory and Monitoring System. South Florida Marine Research Hub Symposium, Ft. Lauderdale International Boat Show. Nov 2018.
- 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. 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.

## GRANT AWARDS

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**EXTRAMURAL** (37 total, 30 as lead PI, >\$7.7 million in competitive funds awarded to Voss)

- Voss JD**. Advancing coral reef research and resilience in Southeast Florida (Phase 4). Florida Department of Environmental Protection. \$197,904. 2023-2024. PI.
- Voss JD**. Monitoring and Analyses of Large-scale Outplanting to Assess Coral Restoration Feasibility in Response to Stony Coral Tissue Loss Disease. Subaward from FWC (Funding from Florida DEP). \$211,280 to Voss. 2022-2023. PI.
- Voss JD**, Verma S. Rapid Resilient Reefs for Coastal Defense (R3D). DARPA Reefense Program, subaward from University of Hawai'i. \$254,290 to Voss in Phase 1 (projected total for all phases \$957,098). 2022-2027. PI.
- Voss JD**. Advancing coral reef research and resilience in Southeast Florida (Phase 3). Florida Department of Environmental Protection. \$166,911. 2022-2023. PI.
- Voss JD**. Advancing coral reef research and resilience in Southeast Florida (Phase 2). Florida Department of Environmental Protection. \$150,191. 2021-2022. PI.
- Voss JD**. Large-scale Outplanting Designed to Assess Coral Restoration Feasibility in Response to Stony Coral Tissue Loss Disease. Florida Fish and Wildlife Conservation Commission (with funding from FL DEP). \$408,724. 2021-2023. PI.
- Voss JD**. Intraspecific factors driving resistance and/or resilience to stony coral tissue loss disease on Florida's coral reefs. Florida Department of Environmental Protection. \$298,800. 2021-2023. PI. Collaborative award in tandem with DEP award to Brian Walker, NSU.
- Voss JD**. Advancing coral intervention and resilience in Southeast Florida. Florida Department of Environmental Protection. \$205,394. 2020-2021. PI.
- 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. \$118,550. 2019-2020. PI.

- Voss JD.** CIOERT Supplement: Development of eDNA tools for corals and sponges. NOAA Office of Ocean Exploration and Research. \$90,000. 2019-2020. PI
- Voss JD, Reed JK.** CIOERT Supplement: South Atlantic Deep-Water Marine Protected Areas and Oculina Experimental Closed Area: Characterization of Benthic Habitat and Fauna. NOAA Fisheries. \$93,351. 2019-2020. Nominal PI, Reed lead on project.
- Voss JD.** Characterizing responses of vulnerable corals to stony coral tissue loss. Subaward through CIMAS (FFT from NOAA OAR). \$117,495. 2019-2020. PI.
- Voss JD.** Intervention and fate tracking for corals affected by scleractinian tissue loss disease in the northern Florida Reef Tract: Supplement. Florida Department of Environmental Protection. \$7,475. 2018-2019. PI.
- 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.** Sharing Flower Garden Banks with the World through Telepresence. Subaward through Global Foundation for Ocean Exploration (FFT from NOAA Sanctuaries). \$85,500 to FAU. 2019-2021. Co-PI.
- Voss JD.** Connectivity of Coral Ecosystems in the Northwestern Gulf of Mexico. Subaward from Lehigh University (FFT from NOAA NCCOS). \$4M total, \$130,581 to FAU/Voss. 2019-2023. Co-PI.
- Voss JD.** 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. 2018. PI.
- Sturm AB<sup>G</sup>, **Voss JD.** Graduate Research Fellowship. NSF. \$138,000. 2018-2022. Nominal PI, fellowship awarded to Ms. Sturm.
- Voss JD, Dodge D<sup>G</sup>.** Knauss Marine Policy Fellowship. Florida Sea Grant (NOAA). \$61,500. 2018-2019. Nominal PI, fellowship awarded to Ms. Dodge.
- Voss JD.** Southeast Florida Reef-Wide Coral Disease Surveys: Martin and Palm Beach Counties. Florida Department of Environmental Protection. \$28,513. 2017-2018. PI.
- Voss JD.** Freshwater Discharge and Disease Impacts on Coral Reefs: Implications for Watershed Management in Southeast Florida. Environmental Protection Agency. \$69,926. 2017-2018. PI.
- Voss JD, Beal J.** Assessing Freshwater Discharge Impacts on Coral Health and the Implications for Water Resource Management in Southeast Florida. NOAA Coral Reef Conservation Program. \$126,640. 2016-2018. PI.
- Voss JD, Beal J.** Estuarine impacts on coral reef health and the implications for water resource management in Southeast Florida. Florida Sea Grant. \$144,948. 2014-2016. PI.
- Clark R, Schmahl GP, Hickerson E, Taylor C, Piniak P, **Voss JD.** 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. 2012-2014. Co-PI.
- Hanisak MD, Reed J, Pomponi, **Voss JD,** et al. 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. 2011-2018. Co-PI.

- Pomponi S, **Voss JD**, etc. Cooperative Institute for Ocean Exploration Research and Technology, NOAA, 2009-2020. Executive Director and overall PI (July 2018-present); PI for mesophotic projects (2009-present). Total CIOERT funding to date \$10,893,825. Funding to Voss, \$961,346. Ship time funding awarded from NOAA to Voss, \$938,692.
- Voss JD**, Edge SE. Molecular Basis of Susceptibility to Disease in Floridian Corals. Mote Protect Our Reef Grant Program. \$34,603. 2010-2012. 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, 2010-2013. 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. 2010-2012. PI.
- Voss JD**, Edge SE. Effects of light and temperature on coral pathogenesis. Mote Protect Our Reef Grant Program. \$28,975. 2009-2010. PI.
- Voss JD**, Edge SE. Advanced Molecular Techniques for Quantifying Coral Health Workshop. Florida Sea Grant (NOAA). \$3800. 2008. PI.
- Hanisak MD, Reed J, **Voss JD**. The Robertson Coral Reef Program. Banbury Foundation. \$1,000,000. 2007-2019. Investigator.
- 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. 2004.
- 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 award renewals totaling \$36,777 (2005, \$7,735; 2004, \$11,304; 2003, \$8,698; 2002, \$9,040). PI.
- Voss JD**. 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. May 1, 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 AND MENTORSHIP EXPERIENCE**

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2007-present Florida Atlantic University, Harbor Branch Oceanographic Institution

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

Marine Biodiversity + Lab (OCB 4032, 4032L); taught 13 times

Marine Microbial & Molecular Biology + Lab (OCB 4525, 4525L);  
taught 7 times

Field Studies in Marine Science and Lab (BSC 4930, 4930L);  
taught 7 times

Graduate courses **developed and taught:**

Coral Reef Ecosystems and Lab (OCB 6266, 6266L); taught 4 times

Marine Molecular Ecology (BSC6936); taught 2 times

Ocean Exploration (BSC 6936); taught 1 time

Marine Molecular Biology (BSC 6465); taught 2 times

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

Coral Disease Ecology (OCE 6908)

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 Westwood High School's Marine and Oceanographic Academy; 2 day course **developed and taught** to more than 35 high school classes
- 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 (MS 410)  
Florida's Barrier Islands (WT2E; new course)  
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, 2018-2020, Cooperative Institute for Ocean Exploration, Research, and Technology postdoctoral fellow. *Gene expression variation among corals and their symbionts focusing on the influences of depth and disease.*

**GRADUATE STUDENTS SUPERVISED (15 grad. degrees award, 5 grad. degrees in progress)**

Milena Nestic, 2023-present, FAU Marine Science and Oceanography Masters student. *Tracking potential changes in coral-algal symbiosis following restoration efforts.*

Gabrielle Pantoni, 2022-present, FAU Biology Masters student. *Measuring coral restoration success: Florida's largest ever experimental coral outplant project.*

Haley Davis, 2021-2023, FAU Marine Science and Oceanography Masters student. *Salinity thresholds in Floridian corals: developing evidence-based management criteria.* Current research associate at Central Caribbean Marine Institute.

Sydney Bell, 2021-2023, FAU Biology Masters student. *Assessing the role of coral genotype and algal symbionts in coral restoration success: Florida's largest ever experimental coral outplant project.* Current Phd Student at James Cook University.



Allison Klein, 2022-present, FAU Integrative Biology PhD student. *Genotypic and microbial community variation among *Orbicella faveolata* corals demonstrating variable disease susceptibility*. Klein also completed a Biology master's degree (with thesis) with Dr. Voss in August 2022.

Ashley Carreiro, 2020-2022, FAU Marine Science and Oceanography Masters student. *Effects of nutrient enrichment on Stony Coral Tissue Loss Disease*. PADI Foundation Fellow. Current lab technician in Voss Lab.

Caroline Haymaker, 2019-2022, FAU Biology Masters student. *eDNA methods for coral and sponge characterization*

Erin Shilling, 2018-2020, FAU Marine Science and Oceanography Masters student, *Coral disease intervention success and impacts*. Indian River Lagoon Fellow, FAU Provost Fellow, PADI Foundation Fellow. Currently PhD Student at Texas State University.

Alexis Sturm, 2017-2022, 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. Current NOAA Knauss Fellow.

Ryan Eckert, 2019-present, FAU Integrative Biology PhD student. *Population genetics, community ecology, and larval dispersal in shallow and mesophotic coral ecosystems in the Tropical Western Atlantic*. FAU Presidential Fellow, PADI Foundation Fellow (two awards). Eckert also completed a Biology master's degree (with thesis) with Dr. Voss in August 2019.

Ian Combs, 2017-2019, FAU Biology Masters student. *Characterizing the impacts of scleractinian tissue loss disease on corals in SE Florida*. Indian River Lagoon Fellow. Currently a coral ecosystem biologist at Mote Marine Laboratory.

Danielle Dodge, 2015-2017, FAU Biology Masters student. *Comparative field and molecular studies of coral health on freshwater impacted reef*. Indian River Lagoon Fellow. Awarded NOAA Knauss Fellowship. Currently deputy chief of staff to Director of NOAA OAR.

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 Research Scientist by Gloucester Marine Genomics Institute.

Michael Studivan, 2012-2018, FAU Integrative Biology PhD student and M.S. *en passant*. *Connectivity and Plasticity of Mesophotic Corals in the Gulf of Mexico*. MTS Fellow. Currently a Research Associate at University of Miami CIMAS.

Courtney Klepac, 2012-2014, FAU Biology Masters student. *Characterization of Symbiotic Algae, Genus *Symbiodinium*, in Corals at St. Lucie Reef, FL*. Completed PhD at ODU, currently a Post-doc at Stanford University.

#### **GRADUATE STUDENT COMMITTEES (9)**

Chelsea Cameron, 2022-present, FAU MS Marine Science and Oceanography student  
 Haley McQueen, 2021-present, FAU PhD Integrative Biology student  
 Brianna Cahill, 2020-2022, FAU MS Marine Science and Oceanography student

Juliet Ruggiero, 2019-2021, FAU MS Marine Science and Oceanography student  
David Bradshaw, 2016-2020, 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 (20)**

Eden Lewerke, 2023-present, FAU Biology Student, *Impacts of hyposalinity on coral wound healing.*  
Elle Cohen, 2020-2022, FAU Honors Student, *3D coral model optimization to assess coral disease impacts.*  
McKenna Rayburn, 2019, Humbolt State University, HBOI Summer Intern. *3D coral model development to assess coral disease impacts.*  
Emily Chei, 2018, Cornell University, 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, Central Michigan University, HBOI Summer Intern. *Optimization of extraction and amplification of zooxanthellae DNA from TriZOL preservative.*  
Gillian O'Neal, 2016, Marine Maritime Academy, 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 (10)**

2023-present Malachy McCaffrey, Laboratory Technician

2022-present Ashley Carreiro, Coral Research Lab Manager

2021-2022 Erin Shilling, Coral Research Lab Manager

2021-2022 Gabrielle Pantoni, Laboratory Technician

2020-2021 Ashley Carreiro, Laboratory Technician

2019-2020 Ian Combs, Research Technician

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 (lab manager)

2012 Ashley Sproles, Laboratory Technician

2010-2014 Lisa Cohen, Biological Scientist

### **SERVICE AND PROFESSIONAL DEVELOPMENT**

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#### **INSTITUTIONAL SERVICE**

Florida Atlantic University

2016- 2023 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

Program lead for Marine Biology track

2016- 2022 FAU Annual Three Minute Thesis Competition

Co-coordinator for Harbor Branch heats, grad student coach

2018 FAU Dive and Boating Safety Officer Search Committee

2015- 2016 FAU Harbor Branch Bioinformatics Faculty Search Committee

2015- present FAU Harbor Branch Faculty Assembly

2022-2023 Chair

2021-2022 Vice-chair

- 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  
Ensured 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
- 2011-2013 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

- 2019-2021 Frontiers in Marine Science Guest Editor for Gulf of Mexico Coral Reefs: Past, Present, and Future
- 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 organized by Florida Department of Environmental Protection  
Member of Research, Intervention, and Restoration teams
- 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 and Technical Advisory Committee  
SEFCRI TAC chair (2014-2016); Coordinator for quarterly TAC meetings to provide recommended management actions; Participation in the "Our Florida Reefs" community working group process
- 2012-2020 International Coral Reef Symposium Session co-chair (4 convened sessions)
- 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 National Ocean Science Bowl, Moderator and Science Judge
- 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; etc.

#### PROFESSIONAL ORGANIZATIONS

- 2015-present Global Underwater Explorers
- 2002- present International Coral Reef Society, Lifetime member
- 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
- 2004-2014 Friends of the Environment, Abaco, Bahamas

#### CERTIFICATIONS

- AAUS Scientific Trimix CCR Diver, 200 foot depth rating and 1700+ career scientific dives
- TDI Mixed Gas Close Circuit Rebreather, Air Diluent CCR, Trimix, Technical Diving, Advance Nitrox, Decompression Procedures, Extended Range
- PADI OW Instructor, Advanced Gas Blender, Emergency First Response Instructor
- NAUI Divemaster, Nitrox Diver, Rescue Diver
- Global Underwater Explorers Fundamentals Diver
- DAN Oxygen Administration and Diving Emergencies, DFA Pro
- Coast Guard Auxiliary Boating Safety and Seamanship; Advanced Keelboat Certification  
>25 years experience in operating power boats and sailing yachts (up to 42')

#### OUTREACH VIDEOS

25 outreach videos based on our laboratories research

All Voss lab videos available at

<https://www.youtube.com/channel/UC2Ke1UnQ0upVffagcgPmfpw/videos>

“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 10-12 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>

## **SELECTED MEDIA COVERAGE**

### ***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

### ***Coral Health (2013-present)***

“Common antibiotic effective in healing coral disease lesions” Science News, Eureka Alert, Florida New Times, SciTech Daily, etc.

“Low-cost 3D method rapidly measures disease impacts on Florida’s coral reefs” Science Daily, Eureka Alert, etc.

“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. Martin County TV

“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

### ***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

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- 2023 *Cayman Agressor*. Mesophotic Characterization of 12 Mile Bank. Coral Connectivity and FAU lead; Dr. Gretchen Goodbody-Gringley (CCMI) PI.
- MV Manta*. CYCLE Coral and Sponge Connectivity in the NWGOM. Chief Scientist and PI.
- 2021 *MV Makai*. Stony Coral Health Mass Intervention Response. FAU lead; Dr. Karen Neely (NSU) PI.
- RV Manta*. Connectivity of Coral Ecosystems (CYCLE) in the NW Gulf of Mexico. Chief Scientist and PI.
- 2019 *RV Manta*. Sharing Flower Garden Banks with the World Through Telepresence. Collaboration with Global Foundation for Ocean Exploration, Flower Garden Banks National Marine Sanctuary, Boston University, and City University of New York. August 13-18, 2019. Chief Scientist and Co-PI.
- RV Walton Smith*. CIOERT Mesophotic Coral Reefs: Connectivity and Health in the FKNMS and Pulley Ridge. August 12-29, 2019. Overall cruise PI, Chief Scientist for Leg 2.
- 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 Team 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 of *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

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- 2019 Florida Atlantic University Researcher of the Year, Assistant Professor Level
- 2011 Elon University Young Alumnus of the Year
- 2007 *Sigma Xi*, The Scientific Research Honor Society
- 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
- 2000 Elon University Outstanding Graduate in the Biological Sciences
- 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