

Gabrielle S. Pantoni

Laboratory Manager

Florida Atlantic University, Harbor Branch Oceanographic Institute

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EDUCATION

M.Sc. Biological Sciences, Graduated May 2024, GPA 4.0

Florida Atlantic University Harbor Branch Oceanographic Institute, Fort Pierce, FL

Thesis: Assessing coral restoration feasibility in the face of stony coral tissue loss disease on Florida's Coral Reef

Advisor: Dr. Joshua Voss, FAU

B.Sc. Marine Biology, Minor in Spanish, Graduated May 2020, *Magna Cum Laude*; GPA 3.62.

University of Rhode Island, Kingston, RI

Research Project: Changes in kelp and rockweed in Narragansett Bay

Advisor: Dr. Lindsay Green-Gavrielidis, Salem State University; Dr. Carol Thornber, UMass Boston

Study Abroad: Bermuda Institute of Ocean Sciences, St. Georges, Bermuda, September – December 2018; GPA: 3.67

Research Project: The effect of rising ocean temperatures on the symbiotic relationship between zooxanthellae and its host, *Cassiopea andromeda*

Advisor: Dr. Samantha de Putron, BIOS

RESEARCH EXPERIENCE

Laboratory Manager, *September 2025 – Present*

Voss Coral Reef Health and Ecology Lab, Dr. Joshua Voss

Harbor Branch Oceanographic Institute at Florida Atlantic University, Fort Pierce, F.L.

Coral Research Technician, *March 2021 – January 2022, May 2024 – September 2025*

Voss Coral Reef Health and Ecology Lab, Dr. Joshua Voss

Harbor Branch Oceanographic Institute at Florida Atlantic University, Fort Pierce, F.L.

Graduate Research Assistant, *January 2022 – May 2024*

Voss Coral Reef Health and Ecology Lab, Dr. Joshua Voss

Harbor Branch Oceanographic Institute at Florida Atlantic University, Fort Pierce, F.L.

Safety and Scientific Diver, *May 2023*

CYCLE Cruise, RV Manta

Flower Garden Banks National Marine Sanctuary

Scientific Diver, *September 2021, June 2022*

Stony Coral Tissue Loss Disease Intervention Cruise, MV Makai, led by Dr. Karen Neely, NSU

Dry Tortugas National Park, F.L.

R.I. C-AIM Summer Undergraduate Research Fellow and SURF+ Fellow, May 2019 – May 2020
Advisor: Dr. Lindsay Green-Gavrielidis, Dr. Carol Thornber
University of Rhode Island, Kingston, R.I.

SKILLS

Personal Skills

Ability to interpret scientific data sets and current publications
Strong written and verbal communication skills with peers and the public
Comfortable in leadership roles
Organized and able to adapt to challenges

Laboratory and Computer Skills

Data management, data entry
Image and video analysis – ImageJ
Statistical analysis – R
DNA extraction, PCR, qPCR, Gel electrophoresis, and NGS library preparation

Aquaria and Husbandry Skills

Saltwater aquarium design, setup, and maintenance
Water quality monitoring
Neptune APEX system setup and maintenance

Field Sampling and Dive Skills

Field planning and leading dives
Coral sampling, benthic surveys, underwater photography
Underwater mapping and navigation
Coral outplanting
Operation and deployment of oceanographic monitoring equipment; Onset HOBO, YSI
In situ organism identification including tropical marine fish, coral, and invertebrates, and temperate marine algae and invertebrates, *in situ* coral disease identification

PUBLICATIONS

Research Articles:

Thornber, C.S., Cicchetti, G., Green-Gavrielidis, L., Hobbs, N.-V.S., **Pantoni, G.** and Taylor, D.L. (2024), Development and use of a novel diver-operated ski for surveying nearshore rocky reef habitats. *Limnol Oceanogr Methods*, 22: 495-506. <https://doi.org/10.1002/lom3.10617>

Manuscripts in review:

Pantoni GS, Shilling EN, Carreiro AM, Muller EM, Gilliam DS, Lirman D, Bourque AS, Sharp WC, Voss JD. Coral restoration feasibility following stony coral tissue loss disease impacts on the northern portion of Florida's Coral Reef. *In review*.

Bell SL, Shilling EN, **Pantoni GS**, Eckert RJ, Sturm AB, Sharp WC, Muller EM, Gilliam DS, Lirman D, Bourque AS, Voss JD. Coral genetic lineages do not predict disease resistance or survivorship: a multi-species restoration experiment to assess stony coral tissue loss disease susceptibility. *In review*.

Manuscripts in prep:

Eckert RJ, Sturm AB, **Pantoni GS**, Herrera S, Voss, JD. Genetic insights of key habitat-forming coral and sponge populations in Flower Garden Banks National Marine Sanctuary. *In prep.*

Technical Reports:

- Voss J., Shilling E., **Pantoni G.**, Eckert R. and Sturm A. 2021. Advancing Coral Intervention and Resilience in Southeast Florida. Florida DEP. Miami, FL., pp. 1-18
- Voss J., Shilling E., **Pantoni G.**, Eckert R., Davis H., Sturm A., Carreriro A., and Bell S. 2022. Advancing coral reef research and resilience in southeast Florida. Florida DEP Coral Protection and Restoration Program. Miami, FL. Pp. 1-21.
- Voss J., Shilling E., **Pantoni G.**, Eckert R., Davis H., Sturm A., Carreiro A., and Bell S. 2023. Advancing coral reef research and resilience in southeast Florida. Florida DEP Coral Protection and Restoration Program. Miami, FL. Pp. 1-21.
- Voss J., Carreiro A., **Pantoni G.**, Eckert R., Davis H., Lewerke E. and Nesic M. 2024. Advancing coral reef research and resilience in southeast Florida: Phase 4. Florida DEP Coral Protection and Restoration Program. Miami, FL. Pp. 1-33.

AWARDS, HONORS, AND FELLOWSHIPS

Indian River Lagoon Graduate Research Fellowship (2023), \$10,000
University of Rhode Island Biology Department Alpha Award (2020)
R.I. C-AIM Summer Undergraduate Research Fellowship (2019)
University of Rhode Island Dean's List (2016-2020)
University of Rhode Island Centennial Scholarship (2016)
Pell Grant (2016)

TEACHING AND MENTORING EXPERIENCE

Graduate Teaching Assistant, *January 2022 – May 2022, January 2024 – May 2024*
Marine Biodiversity Lab taught by Dr. Dennis Hanisak, Dr. Joshua Voss, Dr. James Masterson
Florida Atlantic University Harbor Branch Oceanographic Institute

Marine Biology Peer Mentor, *September – December 2019*
Appointed by Dr. Hollie Putnam
University of Rhode Island

Undergraduate Teaching Assistant, *September – December 2019*
Animal Physiology Lab taught by Dr. Erin Davis
University of Rhode Island

VOLUNTEER EXPERIENCE

Husbandry Volunteer, October 2017 – May 2018
Fish and Invertebrate Husbandry
Mystic Aquarium, Mystic, CT

LICENSES AND CERTIFICATIONS

AAUS Scientific Diver (2018), currently 300+ scientific dives, 100 ft depth cert

DAN Diving First Aid for Professional Divers and Emergency Oxygen Provider (2025)
PADI Nitrox (2021)
SDI Divemaster (2020)
PADI Advanced Open Water (2018)
PADI Rescue Diver (2018)
SDI Open Water SCUBA, (2018)

PRESENTATIONS

- Do size classes affect coral restoration success on St. Lucie Reef, Florida? **Pantoni GS**, Gilliam D, Wever S, Voss JD. Oral Presentation. 53rd Annual Benthic Ecology Meeting, Mobile, AL. *April 2025*
- Coral restoration in the northern portion of Florida's Coral Reef demonstrates strong survivorship and low susceptibility to stony coral tissue loss disease. **Pantoni GS**, Shilling EN, Bell SL, Sharp WV, Muller EM, Gilliam DS, Lirman D, Bourque AS, Voss JD. Oral Presentation. 52nd Annual Benthic Ecology Meeting, Charleston, SC. *April 2024*
- Coral restoration in the northern portion of Florida's Coral Reef demonstrates strong survivorship and low susceptibility to stony coral tissue loss disease. **Pantoni GS**, Shilling EN, Bell SL, Sharp WV, Muller EM, Gilliam DS, Lirman D, Bourque AS, Voss JD. Poster Presentation. AAUS Diving for Science Symposium, Fort Pierce, FL. *April 2024*
- Coral restoration in the northern portion of Florida's Coral Reef demonstrates strong survivorship and low susceptibility to stony coral tissue loss disease. **Pantoni GS**, Shilling EN, Bell SL, Sharp WV, Muller EM, Gilliam DS, Lirman D, Bourque AS, Voss JD. Poster Presentation. FAU Graduate and Professional Student Association Research Day, Boca Raton, FL. *March 2024*.
Awarded: 1st Place Biological and Chemical Sciences Poster
- Advancing coral restoration on St. Lucie Reef. **Pantoni GS**, Gilliam DS, Wever S, Voss JD. Oral Presentation. Indian River Lagoon Symposium, Fort Pierce, FL. *February 2024*
- Assessing coral restoration feasibility in the face of stony coral tissue loss disease on the northern portion of Florida's Coral Reef. **Pantoni GS**, Shilling EN, Bell SL, Sharp WC, Voss JD. Oral Presentation. 51st Annual Benthic Ecology Meeting, Miami FL. *May 2023*
- Can coral restoration combat losses to stony coral tissue loss disease in the northern portion of Florida's Coral Reef? **Pantoni GS**, Shilling EN, Bell SL, Hunt JH, Sharp WC, Muller EM, Voss JD. Poster Presentation. 15th International Coral Reef Symposium, Bremen, Germany. *July 2022*
- Assessing success of coral outplanting and restoration as a response to coral loss due to stony coral tissue loss disease. **Pantoni GS**, Shilling EN, Bell SL, Hunt JH, Sharp WC, Muller EM, Voss JD. Poster Presentation. 50th Benthic Ecology Meeting, Portsmouth, NH. *March 2022*
- Assessing changes in kelp and rockweed in Narragansett Bay. **Pantoni GS**, Green-Gavrielidis L, Hobbs NVS, Taylor DL, Cicchetti G, Thornber CS. Poster Presentation. RI C-AIM SURF Conference, Kingston, RI. *July 2019*
- Assessing changes in kelp and rockweed in Narragansett Bay. **Pantoni GS**, Green-Gavrielidis L, Hobbs NVS, Taylor DL, Cicchetti G, Thornber CS. Poster Presentation. Rhode Island Natural History Society Climate Change Conference, North Kingstown, RI. October 2019.
- Assessing changes in kelp and rockweed in Narragansett Bay. **Pantoni GS**, Green-Gavrielidis L, Hobbs NVS, Taylor DL, Cicchetti G, Thornber CS. Oral Presentation. Northeast Algal Symposium, Burlington VT. *April 2021*. **Awarded:** Best Undergraduate Oral Presentation

REFERENCES

Dr. Joshua Voss
Graduate Advisor
Florida Atlantic University

Jvoss2@fau.edu

Dr. Lindsay Green-Gavrielidis

Associate Professor

Salem State University

Lindsay.greengavrielidis@salemstate.edu

Dr. Carol Thornber

Dean of the School of the Environment

University of Massachusetts Boston

Carol.thornber@umb.edu