

Rosanyely Santana

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EDUCATION

FLORIDA ATLANTIC UNIVERSITY

Davie, FL

Ph.D. student in Integrative Biology

Advisor: Dr. Carsten Grupstra

Research Focus: Coral holobiont diversity, cryptic lineages, and climate stress resilience

FLORIDA INTERNATIONAL UNIVERSITY

Miami, FL

B.A. Natural and Applied Sciences (May 2020)

Certificates in Marine and Coastal Affairs and Environmental Studies

RESEARCH INTERESTS

Coral reef ecology, coral holobiont interactions, cryptic coral lineages, climate stress and bleaching, symbiodiniaceae diversity & coral restoration.

RESEARCH EXPERIENCE

Florida Atlantic University

Davie, FL

Doctoral Researcher

August 2025 – Present

- Investigating coral holobiont diversity and cryptic lineages in South Florida reefs
- Assessing physiological responses of coral–symbiont pairings to climate stressors
- Conducting experimental aquarium-based thermal and light stress experiments
- Statistical analysis of ecological and physiological datasets
- Coral fragment husbandry and maintenance of experimental systems

Florida International University: Institute of Environment

Miami, FL

Research Technician: Coastal Conservation and Restoration Lab

Dec 2017 – April 2022

- Maintained Aquaculture systems for marine invertebrates
- Conducted Benthic Surveys in coastal ecosystems including coral reefs and seagrass beds
- Experimental design focusing on assessing biodiversity and shifting baselines
- Analyzed and classified fish and invertebrate's species from field videos

Research Laboratory Manager: Aquatic Ecology and Ecotoxicology Lab

August 2019 – May 2021

- Experimental design focusing on metal contaminants in fish behavior -- primarily predator-prey interactions.
- Holding and husbandry of live fish and invertebrates.
- Responsible for day-to-day operations of the Aquatic Ecology and Toxicology Laboratory including equipment maintenance.
- Maintained an entire laboratory by managing funds of \$500K (NSF funds).
- Responsible for training and supervising eight undergraduate volunteers.

TEACHING EXPERIENCE

Florida Atlantic University

Davie, FL

Teaching Assistant – Microbiology Laboratory

August 2025 – Present

- Instruct undergraduate microbiology laboratory sections
- Teach aseptic technique, culturing, staining, and microbial identification methods
- Guide students through experimental design and data interpretation
- Grade lab reports, quizzes, and practical assessments
- Provide mentorship and academic support to undergraduate students

FELLOWSHIPS AND AWARDS

- FAU Biology Scholarship — \$3,730 (2025)
- McKnight Doctoral Fellowship — \$64,000 (2024)
- ASLO Multicultural Program — \$5,000 (2024)
- NSF Post-Baccalaureate Research Award — \$34,500 (2021)
- Florida Fish and Wildlife Internship — \$10,000 (2023)
- Ocean Sciences Meeting Travel Scholarship — \$1,500 (2020)
- ASLO Travel Award — \$500 (2020)
- SACNAS Travel Award — \$2,500 (2019)
- Emerging Researchers Conference Travel Award — \$1,500 (2019)
- McNair Scholars Fellowship — \$5,000 (2019)
- REU Fellowship, University of Rhode Island — \$1,500 (2019)
- REU Fellowship, Florida International University — \$5,000 (2018)

PRESENTATIONS

- Biogeochemistry Symposium — July 2025. Poster Presentation.
- Ocean Sciences Meeting — 2020. First Author E-Lightning Poster.
- SACNAS — 2019. First Author Oral Presentation.
- Emerging Researchers Conference (ERN) — 2019. First Author Poster and Oral.
- FIU McNair Scholars Conference — 2018–2019. First Author Poster and Oral.
- American Geophysical Union Fall Meeting — 2022. Poster Presentation.

OUTREACH AND EDUCATION

Black Women in Ecology, Evolution and Marine Science (BWEEMS)

Miami, FL

Marketing Coordinator

April 2022 – April 2026

- Create educational content surrounding topics in ecology, evolution and marine science.
- Create promotional materials supporting and promoting BWEEMS members.
- Manage social media content for various social media platforms.

SCIE.CO

Miami, FL

Creator and Writer

Jan 2019 – Present

- Using social media to communicate science to a broad audience, from young students to fellow scientists.
- Graphic Design production including infographics, short videos, and other promotional and informational materials.
- Produce videos and podcasts for monthly scientific topics within marine science.

SKILLS

- Languages: English, Spanish, German
- Statistical Analysis: R, SPSS, Excel
- Field Skills: Benthic surveys, coral identification, seagrass monitoring
- Laboratory Skills: Aquaculture systems, microbial techniques, experimental design
- Science Communication: Infographics, video production, outreach

CERTIFICATIONS

- AAUS Scientific Diver
- 2025 Adult First Aid / CPR / AED Certification
- NASE Open Water Diving Certification
- NASE Nitrox Diver Certification
- PADI Advanced Open Water Certification

PUBLICATIONS

1. Water masses distribution in the Canadian Arctic Archipelago: Implementation of the Optimal Multi Parameter analysis (OMP) to Earth System Science Data, 2022
2. Black Women in Ocean Science: Barriers to Advancement and Strategies to Move Forward
The Oceanography Society, 2023