

Carly Dempsey | Curriculum Vitae

Boca Raton, Florida 33433
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Seasidesciencebycarly.com

Education

Florida Atlantic University

Boca Raton, FL

B.S. in Biological Sciences and Honors Research

December 2024

Minor: Department of Political Sciences

Certificates: Undergraduate Research and Environmental Sciences

Programs: Semester By The Sea at Harbor Branch Oceanographic Institute &

NASA Satellite Science Research Certified

Diving: Accomplished over 50 dives as a PADI Open Water Certified Diver in the research field

Research Experience

Florida Atlantic University

Boca Raton, FL

Biological Sciences

August 2023 - Present

Lead Project Organizer in Aquatic Botany and Ecology Lab

Current Research Projects

- Application of Computed Tomography Imaging in Tropical Seagrasses
- Quantifying Radial Oxygen Loss Across a Sediment Barrier in Tropical Seagrasses

University of Texas at Austin

Austin, TX

University of Texas Computed Tomography Facility

June 23-28

National Science Foundation Short Course

"Data Acquisition, Visualization, and Analysis for Biological Applications"

Professional Experience

National Save the Sea Turtle Foundation

Deerfield Beach, FL

Administrative Assistant

August 2024 - Present

Provided administrative support for a variety of purposes, such as data analysis and grant work.

Streamlining office operations and assisting in the coordination of environmental conservation projects.

Marine Education Initiative*Environmental Education Program**Environmental Educator*

Taught at-risk elementary/middle/high school students through various short courses covering topics in sustainable agriculture and the role of aquatic botany in various marine systems

Delray Beach, FL

May 2024 - Present

Pinnacle Ecological Consulting*Research Diver*

Collected various ecological data in the marine environment, determining environmental impact from local developments, focusing on seagrass beds and fringe reefs

Boynton Beach, FL

May 2023 – August 2023

Gumbo Limbo Nature Center*Animal Husbandry Volunteer*

Care for numerous native species apart of program, ranging from terrestrial megafauna to aquatic microfauna, in order to be used for various educational programs

Boca Raton, FL

October 2022 – Current

Florida Atlantic University*Teaching Assistant for Research Principles Course*

Taught early career researchers primary methods of research principles such as literary analysis and methodology

Boca Raton, FL

December 2021-May 2022

Publications and Articles

Dempsey, C. (2023). A student's solution for Infrastructure. Molecular Frontiers Journal, 07(Supp01), 3–7. <https://doi.org/10.1142/s2529732523970015>

Dempsey, C. (2024, June 21). Reigniting prescribed burns for the florida wildlife corridor in the face of climate change . The Invading Sea. <https://www.theinvadingsea.com/2024/06/21/florida-wildlife-corridor-prescribed-burns-climate-change-urban-sprawl-land-management/>

Dempsey, C. (2024b, July 3). Climate anxiety eased by program training youth activists . The Invading Sea. <https://www.theinvadingsea.com/2024/07/03/climate-anxiety-youth-activism-change-the-chamber-changemakers-gen-z-fridays-for-future/>

Posters and Presentations

Dempsey, C & Charles, W (2024). Assessing Gas Exchange Efficiency in Seagrasses applying 3-D Micro-CT Imaging: Implications for Conservation in Florida Bay. Florida Atlantic University Fall Undergraduate Research Symposium, Broward, FL

Dempsey, C. & Hoey, A (2024). Applications of Computed Tomography (CT) Imaging in tropical seagrasses: Quantifying aerenchyma tissue critical for gas exchange. Florida Atlantic University Spring Undergraduate Research Symposium, Boca Raton, FL

Alexiou, N. & Dempsey, C (2024). Minimal Radial Oxygen Loss from Tropical Seagrasses: A Counter Paradigm. Florida Atlantic University Spring Undergraduate Research Symposium, Boca Raton, FL

Honors and Awards

People's Choice Poster 1st Prize Undergraduate Research Symposium in Natural Sciences, 2024
Writing Across the Curriculum Student Awardee, 2024
Dr. Eric Shaw Excellence in Science Undergraduate Research Poster Competition Awardee, 2024
4Ocean Wavemaker and Ambassador, 2024
Emerging Scientist of Molecular Frontiers Journal, 2023
Greater Boca Raton Chamber of Commerce Golden Bell Scholarship, 2023

Professional Memberships

Women in Ocean Science - *Present*
Ecological Society of America – *Present*
-Presiding over local S.E.E.D.S chapter
Non-Clinical Tomography User Research Network - *Present*
Society of Women Engineers – *Present*

Relevant Coursework

Marine Biodiversity	Marine Ecology	Marine Science
Evolution	Loss of Everglades Ecosystem	Sustainable Cities
Master's Molecular Ecology	Global Environmental Politics	Policy Marine Science
Organic Chemistry 1	Organic Chemistry 2	Biostatistics