**Elizabeth A. Yanuskiewicz**

**Ph.D. Candidate • University of Miami**

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**EDUCATION**

Ph.D., University of Miami, FL Ocean Sciences, *Adviser: Hilary Close* 2021-present

M.S., University of North Carolina Wilmington, NC

Marine Science, *Adviser: Chad Lane* 2018-2019

B.S., Eckerd College, FL Marine Science 2012-2016

**PROFESSIONAL EXPERIENCE**

Graduate Research Assistant, University of Miami

Start date: August 2021-present, full time +40 hours per week

* Conducted research in an organic geochemistry clean lab (PI Hilary Close) to produce data products as part of the EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) NASA-led field campaign to chemically characterize organic matter in the North Atlantic Ocean and identify transformation pathways that aid or diminish the biological carbon pump, and therefore carbon sequestration
* Presented research to peers, collaborators, and the public during meetings, seminars, and academic conferences
* Communicate scientific findings through peer-reviewed scientific journals (currently in preparation, see publications section of CV)
* Developed additional research projects stemming from work done for grant-funded projects
* Skills and instrumentation used: Thermo Elemental Analyzer; GC-Isolink II, Conflow IV, MAT 253 isotope ratio mass spectrometer; centrifuge; freeze-dryer; gas chromatography-mass spectrometer; high-performance liquid chromatography; wet chemistry techniques to isolate and purify target biomolecules

Paraprofessional, Eckerd College

Start date: September 2020-February 2021, part-time 20 hours per week

* Assisted with undergraduate laboratories in the marine science department, set-up, assistance during lab, gave introductory lectures; break down of laboratories
* Graded laboratory assignments and administered exams
* Held office hours for students
* Reviewed material for laboratories to check for the accuracy of the content

Park Ranger, Honeymoon Island State Park, FL

Start date: August 2020-February 2021, part-time 20 hours per week

* Conducted daily landscape and structural maintenance
* Answered visitor emergency calls and worked with Florida Fish and Wildlife
* Handled entrance fees and submitted daily reports that met state requirements
* Educated the public on local wildlife and vegetation

Graduate Research Assistant, University of North Carolina Wilmington, NC

Start date: July 2018-December 2019, full time +40 hours per week

* Conducted research for a grant-funded project (PI Chad Lane) that developed a paleo-precipitation record for a mountain environment in Costa Rica and collaborated with anthropologists to understand how precipitation influenced human land-use change and when the site may have been abandoned due to drought (reference publication section for citation of peer-reviewed publication of this work)
* Presented research at meetings, poster sessions, and academic conferences
* Assisted with additional projects crafted by the PI of the lab – compound-specific radiocarbon analysis of modern vegetation (see publication section for citation for peer-reviewed publications of this work)
* Skills and instrumentation used: wet chemistry benchwork techniques to isolate pure hydrocarbons from sediment samples; gas chromatograph with a flame ionization detector; isotope ratio mass spectrometer; prepped samples for compound-specific radiocarbon analysis

Park Ranger, Moran State Park, WA

Start date: May 2017-September 2017, full time 40 hours per week

* Managed camping reservations and walk-ins
* Answered visitor emergency calls and worked with local law enforcement
* Handled entrance fees and submitted daily reports that met state requirements
* Educated the public on local wildlife and vegetation

Marine Science Instructor, Seacamp Associations, Inc., FL

Start date: May 2016-October 2016

* Taught scientific classes to students – marine geology/ecology
* Assisted with SCUBA classes for students – rescue diver on dives
* Operated vessels to transport students to field and SCUBA sites in the Florida Keys

**RESEARCH EXPERIENCE**

2021-present Graduate research assistant to Dr. Hilary Close, Marine Organic and Isotope Geochemistry lab, University of Miami, FL

2018-2019 Graduate research assistant to Dr. Chad Lane, Paleoenvironmental Change Research Group, University of North Carolina Wilmington, NC

2017-2018 Research Intern to Dr. Emily Hall, Ocean Acidification Research Program, Mote Marine Laboratory, FL

2014-2015 Undergraduate research intern to Dr. Patrick Schwing, Short-lived Radiochemistry Lab, University of South Florida, FL

**PUBLICATIONS**

1. **Yanuskiewicz** et al. Isotopic evidence for the alteration of exported phytoplankton biomass during the Atlantic spring bloom. *In prep.*

2. **Yanuskiewicz** et al. Role of carbohydrates in particle export during North Atlantic spring bloom. *In prep.*

3. Taylor, Z. P., Anderson, C. N., Lane, C. S., Pleasant, G. X., & **Yanuskiewicz, E. A.** A 7500-year record of fire and precipitation dynamics from Clear Pond, South Carolina. *Submitted.*

4. **Yanuskiewicz, E. A.,** Lane, C. S., Horn, S. P., Johanson, E. N., & Gamble, D. W. (2022). Compound-specific stable carbon and hydrogen isotope analyses of late-Holocene vegetation and precipitation change at Laguna Los Mangos, Costa Rica. *Quaternary International*, *607*, 22-34.

5. Lane, C. S., **Yanuskiewicz, E. A.,** Mead, R. N., & Horn, S. P. (2021). Anomalously low radiocarbon content of modern n-alkanes. *Organic Geochemistry*, *152*, 104170.

**•** Lane, C. S., **Yanuskiewicz, E. A.,** Mead, R. N., & Horn, S. P. (2021). Corrigendum to “Anomalously low radiocarbon content of modern n-alkanes”[Org. Geochem. 152 (2021) 104170]. *Organic Geochemistry*, *155*(C).

**SELECTED PRESENTATIONS (\*Oral)**

Feb. 2024 **\*2024 Ocean Sciences Meeting,** New Orleans, LA.

*Organic composition and degradative transformation of particles from surface to mesopelagic depths in two contrasting water columns: the North Atlantic spring bloom and the northeast Pacific.*

July 2023 **Chemical Oceanography 2023 Gordon Research Conference**, Manchester, NH. *Characterizing the composition of particulate organic matter from surface to mesopelagic during the North Atlantic spring bloom.*

July 2022 **Organic Geochemistry 2022 Gordon Research Conference**, Holderness, NH.

Using compound-specific isotope analysis of amino acids to characterize marine particle composition and alteration: Early results from the North Atlantic EXPORTS campaign.

March 2019 \***Annual meeting of the Americans Association of Geographers**, Washington, D.C. *Compound-specific stable carbon and hydrogen isotope analyses of late-Holocene vegetation and precipitation change at Laguna Los Mangos, Costa Rica.*

**FIELD WORK**

**Research cruises, at sea**

**# UNOLS ID Project Ship Location Year Sea days Main responsibilities**

4 SR1812 Deep Pelagic Food Web Sally Ride Santa Cruz Basin Oct. 2023 15 McLane pumps/particle sampling

3 WS22309 FLOTSUM R/V F.G. Walton Smith Florida Straits Oct. 2022 1 Undergraduate training

2 WS22309 FLOTSUM R/V F.G. Walton Smith Florida Straits Apr. 2022 1 Undergraduate training

1 WS22309 FLOTSUM R/V F.G. Walton Smith Florida Straits Mar. 2022 1 Undergraduate training

**Land-based sampling**

May 2019: Jones Lake State Park, Elizabethtown, NC. Vegetation sampling. 1 day

**TEACHING EXPERIENCE**

Fall 2022 Chemical Oceanography lab, undergraduate, 10-12 students, University of Miami

Fall 2020 Biological Oceanography**,** undergraduate, 15-24 students, Eckerd College

Fall 2019 Introduction to Oceanography Laboratory**,** undergraduate, 15 students, University of North Carolina Wilmington

Fall 2019 Quantitative Methods in Earth Science, undergraduate, 10-20 students, University of North Carolina Wilmington

**HONORS / AWARDS**

2023 Student travel grant, University of Miami, awarded USD 500

2019 First place in the Paleoenvironmental Change Specialty Group student paper competition American Association of Geographers conference

2019 Geological Society of America graduate student research grant, University of North Carolina Wilmington, awarded USD 2500

**OUTREACH ACTIVITIES / COMMUNITY INVOLVEMENT**

2021-2022 Women in science outreach event, University of Miami

2021-2022 COMPASS seminar committee member, University of Miami

2018-present Participate in local beach clean-ups through Surfrider Foundation

Spring 2015 Co-led a spring break service trip to Cat Island, Bahamas to conduct beach clean-ups and experience the island’s agricultural practices

**MEMBERSHIPS**

Association for the Sciences of Limnology and Oceanography

**SKILLS/CERTIFICATIONS**

NAUI rescue diver, SDI advanced /open water diver