

Eden Lewerke

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(641) 530-0441

OBJECTIVE

To gain field-specific experience, further my knowledge in biological and marine sciences, foster a deeper love for our oceans' ecosystems and inspire future generations to adopt a passion for sustainability.

"People protect what they love."

- Jacques-yves Cousteau

EDUCATION

FLORIDA ATLANTIC UNIVERSITY- *Expected Graduation: December 14th, 2023*

- Degree in Progress: Bachelor's Degree in **Biological Sciences**
- Certificates in **Undergraduate Research, Environmental Science, and Geographical Information Systems**
- **Honors in Biological Sciences Research Program**
- Charles E. Schmidt College of Science Dean's List
- Selected for Harbor Branch Oceanographic Institute **Semester By the Sea** program
- Participated in the **Link Foundation Research Fellowship**
- **Tri-Alpha First Generation Honors Society**

U.S ARMY ORDNANCE CORPS- *Graduated: May 2021*

- Honor Graduate for Bravo Co. Wheeled Vehicle Mechanic training (91B)
- Maintenance training included automotive system troubleshooting and repair for the following systems: air, fuel, electrical, hydraulic, brakes, steering, pneumatic, powertrain, air-conditioning (A/C), and suspension
- Credentialed and certified (EPA 609) in A/C automotive service and repair

CERTIFICATIONS

- **Geographic Information Systems**
- **Environmental Sciences**
- **Undergraduate Research**
- **Advanced Open Water PADI Certified**
- **Oxygen Administration**
- **Lifeguard**
- **CPR**
- **AED and First Aid**
- **Heavy Vehicle Operator's License**
- **AAUS Scientific Diver (in training)**
- **Diesel Mechanics**

EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT - *HBOI Coral Reef & Molecular Ecology Lab* **JANUARY 2023 - PRESENT**

- Research on Hyposaline Treatment of Wounded *Montastraea cavernosa* for relative tissue growth rate and survivorship.
- Fragmented and monitored artificially wounded *M. cavernosa* colonies using orthographic image analysis to assess tissue recovery rates.
- Molecular genetic technique training (DNA extraction/ genomic cleaning/ 2bRAD RAD-seq).
- Training on Stony Coral Tissue Loss Disease fate tracking software.
- Coral aquaculture and husbandry experience.

CORAL AND AQUARIUM HUSBANDRY ASSISTANT - *St. Lucie County Aquarium* **MAY 2023- PRESENT**

- Assist in maintaining six large (500+ gallons) saltwater model ecosystems and other small aquaria.
- Monitoring water chemistry, specimen collection using seine nets, performing routine water exchanges, and monitoring aquaria systems.
- Duties include weighing, cutting, measuring, feeding, and stocking food items for marine fishes and invertebrates.

UNITED STATES ARMY, FL NATIONAL GUARD- *Rank: Specialist, Wheeled Vehicle Mechanic* **APRIL 2020 - PRESENT**

- Graduated Basic Combat Training and Advanced Mechanics Training.
- Given the Top 10% award in graduating BCT class for an early rank promotion.
- Distinguished Honor Graduate at 16th Ordnance Battalion, U.S Army Ordnance Corps.
- Awarded the Army Achievement Medal for the 2022 Alaska Arctic Edge Mission and emergency response efforts while activated for Hurricane Ian.

GUMBO LIMBO NATURE CENTER- *Volunteer Aquarium Guide and Green Thumb* **SEPTEMBER 2021- JANUARY 2023**

- Assisted in gardening, working in the butterfly garden, and throughout Gumbo Limbo Nature Center.
- Educated visitors from all around the world about the habitats, species, and coastal conservation efforts at Gumbo Limbo.
- Proficient in identifying South Florida marine species.

BOCA RATON SWIM CENTER - *Lifeguard, First Aid, AED, and CPR Certified* **JUNE 2022- JUNE 2023**

- Deep water save and shallow water save experience.
- Active Lifeguard Certification and guarding experience since 2017.
- Participated in teaching youth swim lessons.

PRESENTATIONS

BROWARD STUDENT RESEARCH SYMPOSIUM - FAU University/College Library, Davie, FL NOVEMBER 17th, 2023

- Poster presentation
- Poster title “Salinity stress decreases wound healing ability in the coral *Montastraea cavernosa*”

REEFLORIDA CONFERENCE - Frost Museum of Science, Miami, FL NOVEMBER 7th, 2023

- Poster presentation
- Poster title “Salinity stress decreases wound healing ability in the coral *Montastraea cavernosa*”

HBOI LINK SYMPOSIUM - HBOI, Fort Pierce, FL AUGUST 2023

- 15-minute presentation
- Talk title “ Effects of Salinity Stress on Wound Healing in the Coral *Montastraea cavernosa*: Implications for Coral Reef Resilience and Management”

HBOI OCEAN EXPLORATION POSTER SESSION - HBOI, Fort Pierce, FL MAY 2023

- Poster presentation
- Poster title “Profiling Invertebrate Diversity and Abundance at Two Sites in the Indian River Lagoon”

SEMESTER BY THE SEA SYMPOSIUM - HBOI, Fort Pierce, FL MARCH 2023

- 15-minute presentation
- Talk title “The Affects of the Dinoflagellate *Karenia Brevis* on Tropical Corals and Their Respective Communities”

CLUBS

- FAU Marine Science Club
- FAU SCUBA Dive Club
- FAU Surf Club
- FAU Human Powered Submarine Club

SKILLS

- Mechanical and technical troubleshooting
- Geographic Information Systems
- RStudios
- Proficiency in Microsoft Suite
- SCUBA Diving