

Sarah Newton

(407)810-0165 | sarahnewtonnn@gmail.com

EDUCATION

Florida Gulf Coast University

B.S. in Marine Science

May 2020

Minors in Geology & Climate Change

- Dean's List, President's Silver Scholarship

PROFESSIONAL EXPERIENCE

Florida Atlantic University

August 2023 – Present

- **Research Assistant**
 - Proposing and executing a scientific research study
 - Aiding in the advancement of publications and presentations
 - Facilitating laboratory and field processes

South Florida Water Management District

November 2020 – August 2023

- **Scientist 3**
 - Coordinating between state and federal agencies to facilitate effective scientific communication
 - Designing and implementing a robust scientific research plan
 - Managing the production of reports and documentation
 - Monitoring seagrass in the southern Indian River Lagoon, St. Lucie and Caloosahatchee River Estuaries
- **Chemist/Scientist 2**
 - Operating and upholding flow injection instrumentation for a variety of parameters
 - Correctly employing skills needed for Microcystin analysis using ELISA kits
 - Overseeing training on analytical procedures and instrument maintenance
 - Revising SOP's for optimal efficiency
- **Chemist/Scientist 1**
 - Calibrating, maintaining, and troubleshooting analytical instrumentation
 - Effectively managing time to keep up with work-load demands
 - Preparing standards/reagents per SOP, adhering to QA/QC procedures
- **Associate Chemist (Sample Receiving)**
 - Assessment of collection paperwork for errors prior to data entry
 - Utilizing the Laboratory Information Management System (LIMS)
 - Working with colleagues and managers to amend sample mix-ups, improper preservation issues, lost samples, incorrect information, etc.

Florida Gulf Coast University- Marine Chemistry Lab

Laboratory Assistant

January 2020 – July 31, 2020

- **Micro-Plastic Research in the Caloosahatchee River**
 - Collection of various water samples by boat, chemical digestion, filtration, and content analysis
 - Managing sample processing and preparing new samples
 - Revising methods to achieve optimal results while retaining accuracy
 - Training peers and coordinating with university staff/professors

Research Assistant

March 2020 - July 31, 2020

- **City of Naples Assessment of Pond Health**
 - Acquisition and lab analysis of lake sediment samples
 - Communicating with professors on project status, updates, and concerns
 - Modifying sample processing techniques to work with limited resources

Florida Gulf Coast University- Course Related Research

Spring 2018 - Spring 2020

- **Oyster Research** – Comparison of biological parameters on oysters taken from 2 reefs in Rookery Bay; focused on restoration efforts (*Spring 2020*)
- **Sediment Cores** – Collection and stratigraphic analysis of multiple sediment cores from marine and terrestrial settings (*Spring 2018 and Spring 2020*)
- **Water Sampling in the Gulf** – Collection and analysis of aqueous samples from the Gulf of Mexico (*Fall 2019 and Spring 2019*)

RESEARCH SKILLS AND EQUIPMENT

Analytical Skills:

- Critical thinking, problem-solving, ingenuity, and organizational skills
- Synthesizing, writing, and presenting reports/papers using Microsoft Word, PowerPoint, and Excel at a professional level

Lab Equipment:

- Flow Injection Analyzers, TOC Analyzers, microscopes, soxhlet extractors, spectrophotometers

Field Equipment:

- Water quality probes, PAR sensors, sediment corers, flowmeters, plankton tow nets, Acoustic Doppler Current Profiler (ADCP), and CTD rosettes

CERTIFICATIONS

Florida Boater's License

Identification number: N98BOATDE1130407

June 2021

Scuba Certified

PADI Open Water

Certification number: 2008002788

August 2020