

# Claire E. Roberts

FISHERY BIOLOGIST

☎ 920.979.6635 | ✉ [claire.e.roberts@gmail.com](mailto:claire.e.roberts@gmail.com) | 🌐 [claire-roberts](#)

## Education

### Auburn University

Auburn, AL

M.S. IN FISHERIES, AQUACULTURE, AND AQUATIC SCIENCES

Jan. 2013 - May 2016

- Thesis: Polycyclic Aromatic Hydrocarbons in Red Snapper, *Lutjanus campechanus*, and Sediment Samples After the Deepwater Horizon Oil Spill

### University of Wisconsin-Stevens Point

Stevens Point, WI

B.S. IN BIOLOGY

Sep. 2007 - May 2011

- Minor: Chemistry

## Skills

**Programming** R, JavaScript, Leaflet (for R), R Markdown, SAS

**Web** Shiny (for R), HTML5, CSS3

**Software** Microsoft Office Suite (including Access), QGIS, Sigma Plot, ArcGIS

**SCUBA Diving** over 200 logged dives, NITROX cert., Scientific Aquarium Diver, DAN First Aid/Emergency O<sub>2</sub>/CPR cert.

**Chemistry** Gas Chromatography, Accelerated Solvent Extraction, Biochemical Oxygen Demand testing, Ammonia/Nitrogen testing, Total Phosphorus testing, and Total Suspended Solids testing

## Experience

### Gulf of Mexico Fishery Management Council

Tampa, Florida

FISHERY BIOLOGIST

40 hrs/week: Jan. 2017-current

- Develop and/or contribute to fishery management plans and amendments, specifically pertaining to Spiny Lobster and Coral Fishery Management Units.
- Ensure that fishery management plans are compliant with NEPA requirements.
- Add to (as appropriate) and maintain 5-year essential fish habitat review web application.
- Organize and participate in Interdisciplinary Planning Team meetings.
- Assisted in writing of coral reef conservation program FY 2017-2020 grant proposal.
- Participate in conferences and meetings involving federal and state agencies, academia, and private industry representatives.
- Continue involvement in fish habitat-related projects.

### Gulf of Mexico Fishery Management Council

Tampa, Florida

ESSENTIAL FISH HABITAT SPECIALIST

40 hrs/week: Oct. 2015 - Jan. 2017

- Reviewed and updated identifications and descriptions of essential fish habitat for federally managed species in the Gulf of Mexico.
- Referenced updated descriptions to generate both static and interactive maps to visualize habitats utilized by various fish species.
- Created interactive web map of modeled fish abundance data with multiple functions to facilitate management decisions.
- Developed interactive web application with various components from 5-year essential fish habitat review.
- Assisted in creation of various web applications to support decision making for the Gulf of Mexico Fishery Management Council.
- Participate in NOAA Essential Fish Habitat consultation process when appropriate.
- Developed and managed Access database.
- Presented review findings to a wide-range of audiences, including state representatives, peers, and habitat scientists.

## **Auburn University**

*Auburn, AL*

### **GRADUATE RESEARCH ASSISTANT**

*24 hrs/week: Jan. 2013 - Sep. 2015*

- Extracted polycyclic aromatic hydrocarbons from red snapper tissue and sediment samples.
- Conducted statistical analyses on data collected for thesis, including parametric and non-parametric multiple comparisons tests, linear regression, and correlations.
- Assisted in acoustic telemetry projects involving red snapper, gray triggerfish, and various shark species on artificial reefs in the Gulf of Mexico.
- Participated in community analysis surveys of fish species inhabiting artificial reefs using SCUBA, hook-and-line fishing, baited trap fishing, and hydroacoustic methods.
- Assisted in maintenance of fishery independent survey database with approximately 4,500 entries, including data entry and QA/QC.
- Managed database of about 1,500 results from hydrocarbon analyses, including conducting QA/QC.
- Presented research findings to various audiences, including funding agencies, peers, and fisheries scientists.

## **United Vaccines**

*Fitchburg, WI*

### **VIRUS LAB TECHNICIAN**

*40 hrs/week: Sep. 2012 - Dec. 2012*

- Researched and manufactured vaccines used to treat animals, primarily mink
- Experienced using sterile techniques to isolate antigens from primary cells used for virus culture

## **Auburn University**

*Auburn, AL*

### **RESEARCH ASSISTANT**

*40 hrs/week: Jun. 2011 - Dec. 2011*

- Assisted in research of Peter Mudrak M.S. building, deploying and conducting SCUBA surveys on small artificial recruitment reefs in the Northern Gulf of Mexico.
- Assisted in graduate research of Maria Piriano M.S. capturing, tagging and releasing red snapper to assess movements on small artificial reefs in the Northern Gulf of Mexico.

## **Fond du Lac Wastewater Treatment Facility**

*Fond du Lac, WI*

### **CHEMISTRY LAB TECHNICIAN**

*40 hrs/week: Jun. 2009 - Sep. 2009*

- Conducted chemical tests on water samples to ensure proper treatment function.
- Rotated through different sections of the facility to further understand how the wastewater was processed during each step of cleaning.

# **Presentations**

---

## **Habitat Science and Management Applications in the Gulf of Mexico**

*New Orleans, LA*

### **RESTORE AMERICA'S ESTUARIES/THE COASTAL SOCIETY SUMMIT**

*2016*

- Roberts, C.E.

## **Gulf of Mexico Essential Fish Habitat**

*Annapolis, MD*

### **NATIONAL ESSENTIAL FISH HABITAT SUMMIT**

*2016*

- Roberts, C.E.

## **PAH analysis of red snapper tissue after the Deepwater Horizon Oil Spill.**

*Fairhope, AL*

### **PRIVATE MEETING WITH BRITISH PETROLEUM REPRESENTATIVES**

*2015*

- Roberts, C.E. and S.T. Szedlmayer

## **Uptake of Polycyclic Aromatic Hydrocarbons (PAHs) in Red Snapper, *Lutjanus campechanus*, after the Deepwater Horizon Oil Spill.**

*Savannah, GA*

### **AMERICAN FISHERIES SOCIETY: SOUTHERN DIVISION ANNUAL MEETING**

*2015*

- Roberts, C.E. and S.T. Szedlmayer

## **Polycyclic Aromatic Hydrocarbon (PAH) Analysis of Red Snapper, *Lutjanus campechanus*, Muscle Tissue after the Deepwater Horizon Oil Spill.**

*Christ Church, Barbados*

### **GULF AND CARIBBEAN FISHERIES INSTITUTE ANNUAL MEETING**

*2014*

- Roberts, C.E. and S.T. Szedlmayer

## **PAH analysis of red snapper tissue after the Deepwater Horizon Oil Spill.**

*Auburn, AL*

PRIVATE MEETING WITH BRITISH PETROLEUM REPRESENTATIVES

*2013*

- Roberts, C.E. and S.T. Szedlmayer

## **Publications**

---

### **Polycyclic Aromatic Hydrocarbons in Red Snapper, *Lutjanus campechanus*, and Sediment Samples After the Deepwater Horizon Oil Spill**

ROBERTS, C.E.

*2016*

- Auburn University Theses and Dissertations

### **Polycyclic Aromatic Hydrocarbon (PAH) Analysis of Red Snapper, *Lutjanus campechanus*, Muscle Tissue after the Deepwater Horizon Oil Spill.**

ROBERTS, C.E. AND S.T. SZEDLMAYER

*2015*

- Proceedings of the Gulf and Caribbean Fisheries Institute 67