Sequoia Riley, M.S.

Coastal Resource Research Associate, The Water Institute of the Gulf

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Education

M.S. in Marine Resource Management, May 2015
Texas A&M University-Galveston, Galveston, Texas

B.S. in Marine Science & Minor in Applied Mathematics, December 2012 Coastal Carolina University, Conway, South Carolina

Research Interests:

Coastal Resilience Adaptation, Climate Hazard Mitigation, Geospatial & Geostatistical Analyses

Professional Experience:

The Water Institute of the Gulf **2016-Present**
- ***Research Associate I***

Texas Sea Grant Program **2014**
- ***Research Assistant***

Texas A&M University at Galveston **2014**
- ***Student Research Assistant***

Partnership Education Program **2012**
- ***Research Undergraduate Assistant***

Savannah State University **2011**
- ***Research Undergraduate Assistant***

Recent Projects

National Academy of Science Synthesis Report Series: Trends in oil and gas infrastructure, ecosystem function, and socioeconomic wellbeing in coastal Louisiana
Provided technical and GIS support in illustrating infrastructure and socioeconomic wellbeing within coastal Louisiana communities. Researched, collected, and analyzed census data reports containing social vulnerability indicator data in order to map out the socioeconomic wellbeing trend from the year 1960 to 2010. Provided research explaining the infrastructure industries and economic status of four coastal communities.

Point-Aux-Chenes Restore the Earth Workshop
Tasked with developing and maintaining GIS datasets illustrating the Point-Aux-Chenes region where the Restore the Earth project is to take place. Assisted People, Resource, and Technology (PRT) team with

gathering information from local stakeholders explaining their perspective of the incoming Restore the Earth Project taking place in the Point-Aux-Chenes areaa.

Awards, Honors:

1. Texas A&M University Two-Year Graduate Fellowship, 2013-2015
2. Golden Key International Honors Society , 2010-present
3. Coastal Carolina University Dean Honors Award, 2009-2010, 2012
4. Coastal Carolina University Phi Eta Sigma Honor Society, 2009-present

Teaching Experience:

Chemistry Lab for Engineering Majors (Undergraduate Course)
Coastal Sustainable Development Planning (Graduate Course)

CONFERENCE PROCEEDINGS AND PRESENTATIONS

1. Sequoia Riley, Dr. Sam Brody, Dr. Wes Highfield, Dr. Antonietta Quigg. Evaluating the Vulnerability of Toxic Release Inventory Facilities (TRI) to Inland Flooding and Coastal Storm Surge in the Texas Coastal Bend Counties (Presentation). National Technical Association Conference in Washington, D.C. September 21-23, 2016.

2. Sequoia Riley, Dr. Tara Cox, Rebeccah Hazelkorn, Carolyn Kovacs, Robin Perrtree. Temporal trends in the Begging Behavior of the Common Bottlenose Dolphins (*Tursiops truncates*) in the waters around Savannah, Georgia (Poster).ASLO-Association for the Sciences of Limnology & Oceanography Conference in Salt Lake City, Utah. February 19-24, 2012.

TECHNICAL REPORTS

1. Hemmerling, S.A., Carruthers, T.J.B, Hijuelos, A.C., Riley, S., Bienn, H.C. 2016. Trends in oil and gas infrastructure ecosystem function, and socioeconomic wellbeing in coastal Louisiana. WISR-001-2016. The Water Institute of the Gulf. 20pp.

2. Cox, T., Hazelkorn, R., Kovacs, C., Perrtree, R., Riley, S.Temporal trends in the Begging Behavior of the Common Bottlenose Dolphins (*Tursiops truncates*) in the waters around Savannah, Georgia. Internship Project, 2011.

Master's Thesis

1. Brody, S., Highfield, W., Quigg, A., Riley, S. Evaluating the Vulnerability of Toxic Release Inventory Facilities to Determine How They May Impact Marine Life on the Texas Coast. Master's Thesis Project, 2015.