



# MARICEL BELTRÁN-BURGOS

THE WATER INSTITUTE  
OF THE GULF



## Company Role

Research Associate

## Project Role / Focus Areas

- Sediment transport within vegetation
- Deltaic wetlands
- Coastal geology

## Education

- M.S. – Earth and Environmental Sciences, Tulane University, 2021
- B.S. – Geology, University of Puerto Rico, Mayagüez, 2016

## Experience Profile

Driven scientist with a master's degree in Earth and Environmental Sciences, research focused on coastal geomorphology. Experience in field, laboratory and data analysis; skilled in digital design, imagery, ArcGIS. Fluent in Spanish and English.

## Professional Experience

The Water Institute of the Gulf	2021-Present
<ul style="list-style-type: none"><li>• <i>Research Associate</i></li><li>• <i>Summer Intern</i></li></ul>	
Tulane University	2018-2021
<ul style="list-style-type: none"><li>• <i>Research/Teaching Assistant</i></li></ul>	
The Water Institute of the Gulf	2018
<ul style="list-style-type: none"><li>• <i>Summer Intern</i></li></ul>	
NMNH, Smithsonian, Washington, D.C.	2014
<ul style="list-style-type: none"><li>• <i>NHRE Intern</i></li></ul>	

## Selected Projects

### Lake Borgne Gulf Sturgeon Monitoring and Habitat Characterization

### Louisiana Sediment Management Plan (LASMP): Central Coast Regional Sediment Inventory and Sediment Budget Program

### Lowermost Mississippi River Management Program (TO69)

**Barrier Island Synthesis and Report Preparation: Caminada Headlands (BA-0045, BA-0143) and Shell Island** Synthesis and report of data provided by BICM and CPRA of Caminada Headland and Shell Island.

### Shell-Mangrove 2021

### Bay Denesse Living Lab

**Geophysical and Geological Data Acquisition and Analysis in Onslow Bay Offshore North Carolina and Long Bay Offshore of North Carolina and South Carolina (BOEM/Aptim)**

### Smartport

## **Selected Projects (cont.)**

### **Selected Publications**

1. **Beltrán Burgos, M.**, Esposito, CR., Baustian, M., Di Leonardo D., and Nepf, H., 2021, Effects of vegetation seasonality on sediment dynamics in a freshwater marsh of the Mississippi River Delta. *In prep.* Plan to submit to JGR Biogeosciences.

### **Selected Conference Proceedings and Presentations**

1. **Beltrán Burgos, M.**, Esposito, CR., Baustian, M., Di Leonardo D., and Nepf, H., 2020, Effects of Vegetation Seasonality on Marsh Sediment Dynamics, AGU. Oral Presentation
2. **Beltrán Burgos, M.**, Esposito, CR., and Baustian, M., 2019, Effects of vegetation on Sediment Dynamics, CERF, Mobile. Poster Presentation
3. **Beltrán Burgos, M.**, 2016, Geology and Paleontology in Puerto Rico, CSIL, San Juan, P.R., Invited Talk
4. **Beltrán Burgos, M.**, Santos, H., and Ramírez, W., 2015, Using Textural Analysis, Sequence Stratigraphy and Facies Analysis to determine *Kuphus* sp. Paleoenvironment, Undergraduate Research
5. **Beltrán Burgos, M.** and Santos, H., 2015, Identification of the Maximum Flooding Surface (MFS) in the PR #111 outcrop, between Km 27.1 to 27.5, Undergraduate Research
6. **Beltrán Burgos, M.** and Carrano, M., 2014, Cretaceous Theropod Teeth from Western North America, UPRM Undergraduate Symposium, Mayagüez, P.R. Poster Presentation
7. **Beltrán Burgos, M.**, Beltrán Burgos, A, and Abad, C.I., 2009, La Torrecilla Secondary Forest Interdisciplinary Research Project, LSLTER Symposium, UPR,RP, San Juan, P.R. Talk
8. Project Participant. 2008-2011, Piñonas River Environment Research, Barranquitas, PR.