

## NICHOLAS D. DIAZ

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Texas A&M University at Galveston  
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### Institutional Learning

Texas A&M University at Galveston	Ocean and Coastal Resources	BS	2018
Texas A&M University at Galveston	Marine Resource Management	MS	2020
Texas A&M University at Galveston	Marine and Coastal Management and Sciences	Ph.D.	Current Student

### Relevant Research

Using RTK-UAS based data to derive first floor elevations (FFE) and architectural structure types for Galveston Historical Resource Preservation: 2020 – current

Contact: Brent R. Fortenberry      Email: brforte@tamu.edu

Deriving first floor elevations (FFE) within residential communities located in Galveston using RTK-UAS based data:      Master's Thesis 2018-2020

Advisor: Dr. Wesley E. Highfield      Email: highfiew@tamug.edu

### Research Abroad

2019 National Science Foundation Program for International Research and Education (NSF PIRE) Coastal Flood Risk Reduction Program (CFRRP) in the Netherlands through the Center for Texas Beaches and Shores (CTBS)

Assessed using a UAS as an efficient, cost effective method for monitoring dike and levee health in the built environment for risk, safety, and coastal planning management

References: Dr. Wesley E. Highfield, Dr. Samuel D. Brody

### Relevant Presentations

Deriving first floor elevations (FFE) within residential communities located in Galveston using RTK-UAS based data

- 2019 SSPEED Conference (Severe Storm Protection, Education and Evacuation from Disaster Center) at Rice University Houston, Texas
- 2019 HRRC Symposium (Hazard Reduction and Recovery Center) at Texas A&M

University, College Station, Texas

References: Dr. Wesley E. Highfield, Dr. Brent R. Fortenberry, Dr. Samuel D. Brody

### **Relevant Awards and Honors**

‘Deriving first floor elevations (FFE) within residential communities located in Galveston using RTK-UAS based data’ - First Place Poster Presentation at 2019 SSPEED Conference

References: Dr. Wesley E. Highfield

### **Relevant Certifications**

Federal Aviation Administration (FAA) UAS Drone Pilot License Part 107

Pix4D Photogrammetry software certification