

**Richard E. Rosas**

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**Education**

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**Texas A&M University, College Station, TX** 2020 - Present  
Doctor of Philosophy in Oceanography

**University of Delaware, Newark, DE** 2018  
Bachelor of Science in Marine Science

**Research Experience**

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**Ph.D. Student, Texas A&M University** 2018 - Present  
Thesis Advisor: Dr. Niall Slowey  
Thesis: *High Resolution Study of a Coral Reef's Carbonate Chemistry in the Gulf of Mexico*  
Implemented a moored buoy and accompanying benthic sensor array to measure water quality parameters that control carbonate speciation.

**Geologic Survey of the South Atlantic Argentina Margin - Texas A&M University** Fall 2019  
PI: Dr. Niall Slowey  
Conducted a coring cruise paired with a multichannel seismic, multibeam and sub-bottom profiler survey. These efforts are to understand water circulation during the Pre-Pleistocene and portions of the Cenozoic

**Geologic Survey of Coastal Ecuador, Salinas and Guayas Estuary - Texas A&M University** Spring 2019  
PI: Dr. Niall Slowey  
Used multibeam and side-scan sonar to map portions of the Ecuadorian coast for the purpose of future harbor construction. Partnered with personnel from INOCAR and the Ecuadorian Navy.

**MD Sea Grant REU** Summer 2017  
Advisor: Dr. Jeremy Testa  
*A Box Model Analysis on the Delaware Bay Estuary*  
Utilized a box-model approach to quantify net biogeochemical production and interactions in the DE Bay Estuary.

**Undergraduate Field Research, R/V Atlantis** Spring 2017  
– **University of Delaware**  
Chief Scientist: Dr. George Luther  
Worked under Dr. Luther and Dr. Timothy Shaw to collect trace metal samples and evidence of oxygen radicals during a hydrothermal vent cruise utilizing *DSV Alvin*.

**Undergraduate Field Experience, Little Cayman** Winter 2017  
- **University of Delaware**  
Professor: Dr. Mark Warner  
A study abroad program focused on coral reef ecosystems and biodiversity utilizing scuba diving techniques.

**Undergraduate Field Research – University of Delaware** Fall 2016 - Spring 2018  
Advisor: Dr. Arthur Trembanis  
Aided in sediment sampling, autonomous vehicle launches for aerial surveys, and sonar data collection for bathymetric surveys to measure coastal resilience on Delaware Coasts.

### **Honors and Awards**

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Louisiana, Texas Sea Grant Program (LATXSPG) Ocean Acidification Graduate Research Fellowship. Fall 2020 - Present

Texas A&M University Louis Stokes Alliance for Minority Participation (TAMUS LSAMP) Bridge to Doctorate (BTD) Fellowship. Fall 2018 - Present

Susanne and Steve Leininger Scholarship. Fall 2018 - Present

National Science Foundation S-STEM Scholar Fall 2018 – Present

## **Presentations**

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Slowey, N., **R. Rosas**, E. Hickerson, G. Schmahl, J. Walpert, C. DuFore, and R. Perry, 2019, *poster*, Installing Sensors at the Coral Reef of the Flower Garden Banks National Marine Sanctuary to Study Ocean Acidification and other Environmental Processes, AGU Fall Meeting, San Francisco, CA.

**Rosas, R.**, and N. Slowey, 2019, *poster*, High Resolution Study of a Coral Reef's Carbonate Chemistry System in the Gulf of Mexico: Hypothesis and Methods, TAMUS LSAMP Symposium, College Station, TX.

**Rosas, R.**, and J. Testa, 2017, *poster*, Quantifying Net Transport and Transformation of Carbon, Oxygen and Nutrients in the Delaware Bay Estuary, CERF, Providence, RI.

## **Teaching Experience and Service**

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**Texas Science and Engineering Fair Judge** 2019 - 2021  
Junior division volunteer judge for the Spring State Science Fair,  
College Station, TX.

**University of Delaware Tutor** Fall 2015 - Spring 2018  
Tutor for introductory chemistry and biology students,  
Newark, DE.

## **Memberships and Skills**

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American Geophysical Union – Member Since 2009  
Alumni of Phi Sigma Pi, AH Chapter, 2018  
IANTD Open Water and Nitrox Certified Diver