

# EvaLynn Jundt

438 Brooks Dr  
Corpus Christi, TX 78408

ejundt@islander.tamucc.edu  
320-428-2438

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## Education

- Texas A & M Corpus Christi **Aug 2022 - Current**  
Doctor of Philosophy: **Coastal and Marine System Science**  
Cumulative **GPA 3.82**  
Advisor Dr Xinping Hu, Xinping.Hu@tamucc.edu
- Texas A & M Corpus Christi **May 2022**  
Master of Science: **Coastal and Marine System Science**  
Cumulative **GPA 3.82**
- Bemidji State University, Bemidji MN **May 2020**  
Bachelor of Science: **Aquatic Biology**  
Emphasis in Aquatic Systems  
Cumulative **GPA 3.77**
- St Cloud Technical and Community College, St Cloud MN **May 2018**  
Associate of Arts  
Cumulative **GPA 3.90**

## Research

- “Multiple Linear Regression Model for the Estimation of pH and Carbonate Saturation State in the Gulf of Mexico” **2021**  
Harte Research Institute, Texas A&M, Corpus Christi, TX  
Advisor: Dr. Xinping Hu  
The goal of this project is to create a MLR (multiple linear regression) model to fit to fit pH and  $\Omega$  (carbonate saturation) using some combination of the measured parameters: salinity, temperature, pressure, dissolved oxygen, nitrate + nitrite, phosphate, and silicate. The purpose of this is to expand data coverage in the Gulf of Mexico (GOM) to cover areas where carbonate chemistry is not available. This project will also serve to provide valuable data concerning the relationships the physical parameters used in the model as they occur in GOM.
- “Microplastics in the Mississippi from Headwaters to St. Cloud” **2019**  
Biology Department, Bemidji State University, Bemidji, MN  
Faculty Mentor: Dr. Richard Koch  
This study sampled the Mississippi headwater area from Lake Itasca to Sauk Rapids, river miles 1,341-930. From the water and sediment samples taken at nine sites along this stretch of the river, microplastics were present at every site, in densities as high as 645 microplastics per  $m^3$  in the water column and 1,341 per  $m^3$  in sediments. These results indicate both that microplastics are present at source of the Mississippi and may be a cause for concern and future research on their sources and implications on the ecosystems in and along the river.

## **Presentations**

Coastal Estuarine Research Federation (CERF)  
Portland, Oregon **November 2023**  
“Temporal Variability of Seawater Carbonate Chemistry in a Subtropical Marine Sanctuary  
in the Northwestern Gulf of Mexico”

Marine Science Graduate Student Organization Student Research Symposium  
Texas A&M Corpus Christi, TX **November 2023**  
“Variability of Seawater Carbonate Chemistry in a Remote Sanctuary:  
Insights from Autonomous Sensors”

Ocean Carbon and Biogeochemistry Conference  
Woods Hole Oceanographic Institution, Woods Hole, MA **June 2023**  
“Statistical Models for pH and Aragonite Saturation State in the Northwestern Gulf of Mexico”

NOAA Ocean Acidification Program (OAP) Community Meeting  
Scripps Research, La Jolla, CA **January 2023**  
“Statistical Models for Aragonite Saturation State Estimation in the Gulf of Mexico”

Gulf of Mexico Conference  
Baton Rouge, LA **April 2022**  
“Use of multilinear regression models for estimation of aragonite saturation and pH in the  
northwestern Gulf of Mexico”

Ocean Sciences Meeting  
Virtual **February 2022**  
“Use of multilinear regression models for estimation of aragonite saturation and pH in the  
northwestern Gulf of Mexico”

Marine Science Graduate Student Organization Student Research Symposium  
Texas A&M Corpus Christi, TX **April 2022**  
“Use of multilinear regression models for estimation of aragonite saturation and pH in the  
northwestern Gulf of Mexico”

Florida International McNair Scholars Research Conference  
Florida International University, Miami, FL **October 2019**  
“Microplastics in the Mississippi Headwaters”

Student Scholarship and Creative Achievement Conference  
Bemidji State University, Bemidji, MN **April 2019**  
“Microplastics in the Mississippi Headwaters”

## **Conferences**

Student Scholarship and Creative Achievement Conference  
*Bemidji State University, Bemidji, MN* **April 2018**

## **Academic Honors and Awards**

Dr. Tunnell Endowed Scholarship **2023-2024**  
College of Graduate Studies College of Science Scholarship **2023**  
Maggie Bains Scholarship **2023**  
William & Lyell Snyder Scholarship **2023**

National Science Foundation Stakeholder-Guided Environmental Science (STAGES)	2022-2023
Scholar Achievement in Graduate Education (SAGE) Fellowship Award	2022-2025
Ronald E. McNair Post-Baccalaureate Program	2018-2020
Presidents List	Spring 2017, Spring 2019
Dean's List	Fall 2016-Fall 2018

## Memberships

Association for Women in Geosciences (AWG)	2020
American Geophysical Union (AGU)	2021
Marine Science Graduate Student Organization (MSGSO)	2021

## Work Experience

### Outreach

Oso Bay Wetlands Preserve Bay Days as Assistant	2022
Oso Bay Wetlands Preserve Bay Days as Facilitator	2023
Coastal Bays and Estuaries Earth Day Bay Day, HRI representative	2024

### Research Cruises

RV Pelican	Apr, 19-24 2021
NOAA Gulf of Mexico Ecosystem and Carbon Cycle Cruise	Sept-Oct 2021
RV Pelican	Oct, 25-28 2022
RV Pelican	Feb 27-Mar 3 2023
Go-Ship A13.5 Research Cruise	Feb 1-April 23 2024

### President of the Marine Science Graduate Student Organization (MSGSO)

Texas A&M Corpus Christi, TX	2024-Current
<ul style="list-style-type: none"> <li>Lead meetings</li> <li>Initiate contact and build relationships with partner groups and organizations</li> <li>Oversee events, coordinate guests, and act as representative of MSGSO</li> </ul>	

### Vice President of the Marine Science Graduate Student Organization (MSGSO)

Texas A&M Corpus Christi, TX	2022-Current
<ul style="list-style-type: none"> <li>Arrange and moderated meetings</li> <li>Coordinate correspondence and outreach</li> <li>Facilitate events, speakers and more</li> </ul>	

### Research Assistant

Harte Research Institute, Texas A&M, Corpus Christi, TX	2020-Current
<ul style="list-style-type: none"> <li>Travel to field sites to collect and record data and/or samples as appropriate to the specific objectives of the study</li> <li>Collect and analyze data</li> <li>Prepare other articles, reports and presentations</li> </ul>	

### STEM Stars Mentor

Bemidji State University, Bemidji, MN	2019-2020
<ul style="list-style-type: none"> <li>Serve as a resource for first-year students interested in STEM programs</li> <li>Provide leadership and knowledge on STEM fields</li> <li>Retain first-year students in STEM programs</li> </ul>	

### Student Worker

Biology Department, Bemidji State University, Bemidji, MN	2019-2020
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- Assist instructors with classroom prep
- Assist in grading papers
- Care for aquatic animals and insect housed in the biology department
- Organize materials used in classes