Joseph Garza

7037 Islander Way, Corpus Christi, TX ⎮ Cell: (361) 746-8793 ⎮ Email: jgarza189@islander.tamucc.edu

**PROFESSIONAL SUMMARY**

Passionate and experienced aquarist specializing in coral and anemone biology. Experienced in building prosperous relationships among graduate students and professors. Independent research interests’ gesture at optimizing all aspects of coral aquaculture operations and deriving useful genomics-based techniques to develop resilient corals in an attempt to advance the field of assisted evolution.

**EDUCATION**

Texas A&M University - Corpus Christi⏐Bachelor’s in Science, Biology⏐(3.894 GPA) May 2025

Texas A&M University - Corpus Christi⏐Minor in Applied Mathematics⏐(4.0 GPA) December 2024

Texas A&M University - Corpus Christi⏐Minor in Chemistry⏐(4.0 GPA) May 2024

**SKILLS**

Larval Fish Identification

Saltwater Aquarium Systems

Microscopy

Lab Maintenance

Pipetting

Statistical Analysis in R

Instructing & Leading

Literary Composition

Coral & Anemone Biology

Solution Preparation

Presentations

UHPLC - MS/MS

**EXPERIENCE**

Undergraduate Chemistry TA August 2023 – Present

Texas A&M University - Corpus Christi

* Oversees and instructs the lab component in General Chemistry I (Chem1411)
* Emphasis is placed on developing fundamental laboratory skills in students with a particular focus on quantitative lab work
* Instruction encompasses teaching two lab sections a week with grading and regular office hours

Aquarist January 2023 – Present

Salty Aquatics & Fish

* Oversees the health of all aquarium inhabitants including fish, sea anemones, coral, and other invertebrates
* Maintains saltwater parameters in all reef tanks
* Statistical analysis of reef systems data is performed in R
* Research efforts interrelate water parameter data with the overall health and growth of coral

Rock Climbing Guide/Instructor January 2023 – Present

Islander Summit Project |President & Founder|

* Facilitates the instruction of rock-climbing skills both in an indoor and outdoor setting
* Organizes climbing trips and guides students into the wilderness to go on rock climbing, camping, and backpacking adventures

Research Intern February 2022 – January 2023

Dr. Geist’s Early Life History Lab

* Marine larval specimen sorting
* Taxonomic identification of fish, shrimp, and crab down to a genus
* Microscopic photography (Zen Blue)
* Research efforts assessed the vertical distribution of planktonic larvae during ingress through the Port Aransas Inlet System

Research Intern February 2022 – September 2022

Dr. Bird’s Genomics Core-Lab

* Gel electrophoresis, omega bead cleanups, polymerase chain reactions, fragment analysis, mass spectrometry, sanger sequencing and general lab maintenance
* The protocols executed fulfilled university research orders and orders from other academic institutions

**TRAINING**

American Heart Association CPR Training January 25, 2023

CITI Biosafety Training October 28, 2022

CITI Researchers/Staff Training March 10, 2022

CITI Students Working with Animals March 10, 2022

Texas Parks & Wildlife Boaters Education Course February 25, 2022

CITI Working with Fish in Research February 11, 2022

CITI NIH Recombinant DNA Guidelines February 10, 2022

CITI Personal Protective Equipment February 10, 2022

Backcountry First Aid AMGA Certification March 6, 2021

National Youth Leadership Training December 10, 2014

**ACHIEVEMENT**

American Mountain Guide Association Certified Climbing Instructor January 8, 2023

Summited the Grand Teton (12 Hours)⏐Jackson, WY July 30, 2021

Eagle Scout Awarded May 5, 2014

**ORGANIZATIONS**

National Society of Leadership & Success August 25, 2023

Gulf Scholars Program August 16, 2023

McNair Scholars Program July 18, 2023

Math Club |President| April 28, 2023

Islander Green Team January 18, 2023

Islander Summit Project |President & Founder| November 20, 2022

SACNAS Chapter at Texas A&M University - Corpus Christi September 15, 2022

**REFERENCES** Available upon Request