

ZACHARY CHAIREZ

zachary.chairez@uta.edu
Arlington, TX 76019
zacharychairez.netlify.com

EDUCATION

The University of Texas at Arlington *August 2020 - PRESENT*
Ph.D. in Mathematics

Texas A&M University - Corpus Christi *August 2018 - May 2020*
M.S. in Applied Mathematics *Overall GPA: 4.0/4.0*
Thesis: "Spatial-Temporal Models of Multi-Species Interactions to Study Impacts of Catastrophic Events"
Department of Mathematics and Statistics

Texas A&M University - Corpus Christi *August 2018*
B.S. in Mathematics *University GPA: 3.92/4.0*
Department of Mathematics and Statistics

TECHNICAL STRENGTHS

Computer Languages R, Python
Software & Tools MATLAB, LaTeX

EXPERIENCE

- University of Texas at Arlington** *Sept 2020 - PRESENT*
Graduate Teaching/Research Assistant
- Prepare, present and guide students through Calculus based assignments.
 - Creatively instill mathematical foundations in students for future mathematics and science classes.
 - Respond to students' emails quickly and respectfully with suggestions and actions necessary to complete labs.
 - During the Spring semesters, actively research relevant information pertaining to dissertation topic.
- Del Mar College** *Sept 2018 - August 2020*
Professional Mathematics Tutor
- Listen, teach, and dynamically present concepts to students in Elementary Algebra to Differential Equations, as well as freshman/sophomore level Engineering and Physics.
 - Actively encourage students to ask questions.
 - Promote thought experiments, new study habits, and healthy communication skills.
- Texas A&M University - Corpus Christi** *August 2018 - May 2020*
Graduate Teaching Assistant
- Prepare, present and guide students through MatLab-based calculus labs.
 - Similar job duties as current Graduate Teaching Assistant position.
- Texas A&M University - Corpus Christi** *July 2019 - August 2019*
Mathematics Instructor, Project GRAD
- Project GRAD is a nonprofit summer bridge program assisting students in Mathematics and English. I worked side by side with another mathematics instructor implementing various styles of hands-on mathematical learning techniques to propel struggling students to new heights.

- I led the hands-on mathematics workshop following the lecture, engaging and challenging students to think critically and effectively.

TEXPrep

June 2019 - July 2019

Math and Technology Mentor

- Work closely with middle and high school students, covering topics in logic, physics, modular arithmetic, introductory group theory, statistics, engineering and design, as well as technical and professional writing.
- Monitor students throughout the day in and out of the classroom.

CONFERENCES

CERF (Coastal & Estuarine Research Federation) 2019, Mobile, AL, Nov 04, 2019 - Nov 08, 2019

- Talk: "Spatial-Temporal Models of Multi-Species Interactions to Study Catastrophic Events"