

ZACHARY CHAIREZ

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EDUCATION

The University of Texas at Arlington
Ph.D. in Mathematics

August 2020 - PRESENT

Texas A&M University - Corpus Christi
M.S. in Applied Mathematics
Thesis: "Spatial-Temporal Models of Multi-Species
Interactions to Study Impacts of Catastrophic Events"
Department of Mathematics and Statistics

August 2018 - May 2020
Overall GPA: 4.0/4.0

Texas A&M University - Corpus Christi
B.S. in Mathematics
Department of Mathematics and Statistics

August 2018
University GPA: 3.92/4.0

TECHNICAL STRENGTHS

Computer Languages	R, Python
Software & Tools	MATLAB, LaTeX

EXPERIENCE

University of Texas at Arlington
Graduate Teaching/Research Assistant

Sept 2020 - PRESENT

- 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
Professional Mathematics Tutor

Sept 2018 - August 2020

- 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
Graduate Teaching Assistant

August 2018 - May 2020

- 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
Mathematics Instructor, Project GRAD

July 2019 - August 2019

- 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"