Grace Reed

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Education

East Texas A&M University	Commerce, TX
MS Mathematics with an emphasis in Data Science; GPA 4.0	Fall 2024-Current
University of Texas at Arlington (UTA)	Arlington, TX
BS Mathematics with a minor in Spanish; GPA 3.08	Fall 2023
Tarrant County College	Fort Worth, TX
Computer Programming with a focus on C++; GPA 3.64 – Completed all requirements	2019-2020
University of North Texas	Denton, TX
Interior Design and Mathematics before transferring to UTA	2013-2015

Work Experience

Graduate Assistant – Teaching at East Texas A&M University — August 2024-Current
- Served as graduate instructor for an Intermediate Algebra course (MATH 131)
- Involved the development of comprehensive lesson plans and curriculum, preparation of all exams and quizzes, and direct student assessment and feedback through grading.

USDA-ARS/NRCS Apprenticeship Program - Research Assistant – University of Texas at Arlington — May-December 2023
- Research in developing a machine learning model aiming to quantify sheep behavior through computer vision techniques
- Utilized Convolutional Neural Networks (CNNs) to develop a model capable of distinguishing sheep from a diverse range of animals, employing image preprocessing, augmentation, and advanced classification algorithms using Python, Keras, and TensorFlow

Research Assistant (ARS) - University of Texas at Arlington — June-September 2022
- Research in implementing computer vision techniques to extract data from handwritten sugar cane historical records for digital filing
- Achieved between 98-99% accuracy with data detection for seedling reports in conjunction sugar cane documents

Academic Experience

President for Association of Women for Mathematics - University of Texas Arlington Chapter — 2022-2023
- Responsible for scheduling and running meetings, booking speakers and rooms for meetings, representing AWM at events, serving as primary contact, overseeing the organization

SURGE Scholarship Program — 2021-2023
- Provides support programs, including career workshops, counseling, tutoring, and writing skill enhancement
- Faculty mentoring program as well as peer mentoring program
- Industrial mentoring program draws on the expertise and experience of UT Arlington math alumni working at major corporations in the Dallas/Fort Worth (DFW) area.

NASA Community College Aerospace Scholars (NCAS) — 2019-2020
- Selected to attend online onsite workshop for NASA
- Served as Project Manager of a simulated Mission to Mars competition, resulting in 100% mission success
- Engaged in team building exercises and networked with professional representatives from NASA
- Awarded MVP for the team by the team's professional mentor