

Ryan Arif

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ryanarif.com

Education

Utah State University

Doctor of Philosophy in Mathematical Sciences

Student

University of Texas at Arlington

Bachelor of Science in Mathematics

May 2026

Tarrant County College

Associate of Science, Associate of Arts

August 2026

Research

NSF RTG Mathematics for Human Health, UT Arlington January 2025 – Present

Modeling Viability of M13 Bacteriophage in Starvation Conditions for K-12 Escherichia Coli

Collaborators: Kaylea Arif, Austin Brown, Amira Claxton, Abdurrahman Himawan, Elizabeth Rubio, Emma Slack

Advisors: Dr. Erika Gallo, Dr. Keaton Hamm, Dr. Justyn Jaworski, Dr. Hristo Kojouharov, Dr. Christopher Kribs, Dr.

Souvik Roy

Modeling Disease Spread in Feral Hogs in Texas

Collaborators: Kaylea Arif, Amira Claxton

Advisors: Dr. Erika Gallo, Dr. Christopher Kribs, Dr. Amanda Patrick

McNair Summer Research Internship, UT Arlington

Summer 2025

Understanding Mathematics Identity and Belonging in an Undergraduate General Education Terminal Mathematics Course

Faculty Mentor: Dr. Theresa Jorgensen

Conferences/Professional Development

Conference for Research on Undergraduate Mathematics Education (CRUME), Alexandria, VA

February 26 – February 28, 2026

Poster Presentation: *Mathematics Identity and Belonging in an Undergraduate General Education Terminal Mathematics Course*

Texas Undergraduate Math Conference, St. Mary's University October 17 – 18, 2025

Oral Presentation: *Understanding Mathematics Identity and Belonging in an Undergraduate General Education Terminal Mathematics Course*

McNair Scholars 36th Annual Research Symposium, UT Arlington August 13, 2025

Poster Presentation: *Understanding Mathematics Identity and Belonging in an Undergraduate General Education Terminal Mathematics Course*

McNair Scholars Research Conference, Baylor University

August 7-8, 2025

Poster Presentation: *Understanding Mathematics Identity and Belonging in an Undergraduate General Education Terminal Mathematics Course*

McNair Grad School Bootcamp, University of Texas at San Antonio May 20-22, 2025

Gulf States Math Alliance, Southern University at New Orleans February 14-16, 2025

Service

President, Jewish Student Alliance At UTA, UT Arlington 2025-2026
Coordinated events celebrating Jewish culture and advocated for Jewish student life on campus.

President, Mathematical Associate of America, UT Arlington 2025-2026
Organized club meetings, led fundraising review sessions, and recruited volunteers for annual math events.

Awards and Honors

NSF S-STEM STEAMMS Scholarship, \$7500 Spring 2026

Kathryn Head Scholarship, \$500 Fall 2025

McNair Scholar, \$4000 Spring 2025

John A. Gardner Family Math Scholarship, \$2500 2024-2025

H.A.D. Dunworth Scholarship, \$2500 2024-2025

NSF-RTG Mathematics for Human Health Scholar, \$5000 Fall 2024-Present

NSF S-STEM SURGE Scholar, \$5000 Spring 2024

John A. Gardner Family Math Scholarship, \$2500 2023-2024

Stephen R. Bernfeld Memorial Scholarship, \$1500 2023-2024

Dean's List, Tarrant County College Fall 2018, Spring 2023

Teaching Experience

Substitute Teacher, Arlington ISD December 2024 – April 2026
Provided flexible instructional support across diverse classroom settings.

Tutor, Math Learning Resource Center, UT Arlington January 2024-December 2024
Assisted students in college-level math courses and facilitated review sessions.

Math Clinic Tutor, Tarrant County College, Fort Worth TX October 2018 – May 2019
Assisted students in college-level math courses and facilitated review sessions.

Skills

Coding: C++, C, C#, Java, Python, MATLAB, R

Other: LATEX, Microsoft Office Suite, LibreOffice Suite

Interests: comedy \cap nerd stuff