

Asten Fallavollita

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Education

Texas State University **San Marcos, TX**

M.S. in Mathematics (in progress) *Fall 2024 - Present*

- Pure Math concentration, developing master’s thesis in Set Theory without the Axiom of Foundation.
- GPA: 4.0

B.S. in Mathematics *Fall 2021 - Spring 2024*

- Graduated summa cum laude with a major in Mathematics and a minor in Computer Science.
- Completed graduate-level coursework in Abstract Algebra and Algebraic Topology.
- GPA: 4.0

Folsom Lake College **Folsom, CA**

A.A. in Math and Science *Fall 2015 - Spring 2021*

- Completed general education and lower-division coursework.
- GPA: 4.0

Experience

Logic@TXST **Texas State University**

Research Assistant *Fall 2023 - Present*

- Participating in an NSF-funded research fellowship in Mathematical Logic led by Dr. Will Boney at both undergraduate and graduate level.
- Co-organizing the weekly Logic Student Seminar.

Department of Mathematics **Texas State University**

Instructor / Teaching Assistant *Spring 2022 - Present*

- Served as Instructor of Record for freshman-level mathematics survey course.
- Led problem-solving sessions as a Teaching Assistant for Pre-Calculus, Calculus I & II.

Student Learning Assistance Center **Texas State University**

Tutor *Fall 2021 - Fall 2022*

- Tutored university students in subjects including College Algebra, Calculus, Intro to Proof, Chemistry, and Physics.
- Received College Reading and Learning Association Master-Level tutoring certification.

Presentations

Mid-Atlantic Mathematical Logic Seminar **Rutgers University**

- “Non-Foundational Set Theory and Universality” (5 minute lightning talk) - September 27, 2025

Logic@TXST Student Seminar **Texas State University**

- “Set Theory and CW Complexes” - Sep 10, 2025
- “A Friendly Introduction to ZFC Set Theory” - Oct 3, 2024
- “The Foundations of Non-Foundational Set Theory” Sep 5, 2024

Talk Math 2 Me Student Seminar **Texas State University**

- “A Friendly Introduction to a Scary Axiom: Exploring the Axiom of Choice” - Nov 1, 2024
- “Easy as ABC? Examining One of the Most Tortured Conjectures in Number Theory” - Feb 2, 2024
- “The Merten’s Conjecture: Exploring Solved and Unsolved Mysteries of Natural Numbers” Apr 27, 2023

Awards

- 2025 Talk Math 2 Me Outstanding Speaker Award
- 2024 Outstanding Achievement Award for Mathematics Undergraduates
- Mathworks 2023 Undergraduate Fellowship
- Don and Helen Cude Award for Achievement in Mathematics
- Patti Strickel Harrison Scholarship
- Ram Lal Seekri Endowed Scholarship
- Ross & Sarah Wayment Endowed Scholarship
- Denison-Koehn Endowed Scholarship in Science
- Heloise Bowles Memorial Scholarship

Organizations

- Mentor for **Texas State Math Directed Reading Program** *Fall 2025 - Present*
- Vice President and Mentor for **SUPER (Supporting Undergraduates for Powerful Equitable Results in Math)** at Texas State *Fall 2024 - Present*
- Member of **Pi Mu Epsilon Honor Society** *Spring 2023 - Present*

Skills

- LaTeX proficiency
- C++ and Python programming
- Tap dance