

# Logan Greenland

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zgq6@txstate.edu

## EDUCATION

**Texas State University**, San Marcos, Texas, Expected Graduation: May 2027

Master of Science in Mathematics

**Texas State University**, San Marcos, Texas, December 2024

Bachelor of Science in Mathematics

- Minor in Music
- GPA: 4.0

## RESEARCH

**EXPERIENCE University of Texas at Austin Directed Reading Program - Summer 2024**

Worked with a graduate student mentor to do readings in Category Theory, ultimately culminating in a presentation on selected subjects.

**Logic@TXST Fellowship - Spring 2025**

Offered an RA position in the Logic@TXST program run by Dr. William Boney

## TEACHING

**EXPERIENCE Calculus II Graduate Teaching Assistant - January 2025-Present**

**Calculus II Undergraduate Teaching Assistant - January 2024-December 2024**

**MathCATS Tutor - August 2024-Present**

**TXST Mathworks Fellow - Summer 2024**

## PRESENTATIONS

**“Pitch-Set Theory: Music With a Mathematical Twist”**

An explanation of mathematical methods used in modern music theory including Neo-Riemannian theory and how it works with groups and Serialism, working in mod 12 arithmetic. Given in the TalkMath2Me Student Seminar at Texas State (February 14, 2025)

**“Connecting Categorical and Topological Limits”**

A discussion of the categorical notion of a limit and how it shows up in the context of topology, helping to bridge the common name. Given at the conclusion of the UT DRP (July 15, 2024), in the TalkMath2Me Student

Seminar at Texas State (September 13, 2024), and at the 2024 Texas Undergraduate Mathematics Conference (November 9, 2024).

**“The Math Isn’t Mathing!”**

A talk about key strategies for test taking and problem solving, especially in the context of Calculus II and Introduction to Advanced Mathematics. Given at the TalkMath2Me Student Seminar at Texas State (April 26, 2024)

**HONORS AND  
AWARDS**

**Lynn Tulloch Math Scholarship** - Awarded April 2024

**President’s Honor Scholarship** - Awarded Fall 2022-Fall 2024

**Chartwell’s Undergraduate Scholarship** - Awarded Fall 2022-Fall 2024

**Dean’s List** - Awarded Fall 2022-Fall 2024

**Outstanding Math Undergraduate Award** - Awarded April 2023 and April 2024

**MEMBERSHIPS**

**Pi Mu Epsilon** - Fall 2023-Present

Served as Vice-President Fall 2024-Present

**Texas State Problem Solvers** - Fall 2024-Present

**Association for Women in Mathematics** - Fall 2024-Present

**Texas State Math Club** - Spring 2024-Fall 2024

Served as Vice-President Fall 2024