Matthew McCutchen

Education

Second Year Mathematics Graduate Student, Texas State University
Bachelor of Science, Mathematics, August 2023, Texas State University

Experience

Graduate Teaching Assistant Texas State University Fall 2023 – Spring 2024

Taught two lab sections of Calculus I and two Calculus II in the Fall and Spring respectively

Tutor at CalCentral Texas State University Fall 2023 – Spring 2024

Tutored Pre-calculus, Calculus I, II, III

Directed Reading Program UT Austin Summer 2022

Studied Ring Theory, Hensel's Lemma, Localization, and p-adic numbers under Isaac Martin

Math CATS Tutor Texas State University Fall 2020

Tutored most math courses offered at Texas State

Undergraduate Courses Taken

1. Calculus I, II, III
2. Linear Algebra
3. Abstract Linear Algebra (Independent Study)
4. Differential Equations
5. Fourier Series and Boundary Value Problems
6. Analysis I, II
7. Introduction to Advanced Mathematics
8. Modern Algebra
9. Number Theory (honors)
10. General Topology
11. Combinatorics
12. Discrete Math

Graduate Courses Taken

1. Set Theory
2. Algebra I
3. Introduction to Analysis
4. Analysis I, II
5. Topology I
6. Partial Differential Equations
7. Scientific Computing
8. Complex Analysis

Skills

1. Typesetting in LaTeX
2. Computer programming in C and Python

Seminar Talks

1. Talk Math 2 Me. Solving the Brachistochrone. Texas State University. April 12, 2024

Mini-Courses

1. 1st San Marcos Winter School, Texas State University, January 2024. (Algorithms and PDE)
2. 1st San Marcos Summer School, Texas State University, May 2024. (Algorithms and PDE)