

Zain Siddiqui

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1 PERSONAL BACKGROUND

Born December 16, 1995 in Cleveland, TN, USA.

EDUCATION

Washington University in St. Louis, St. Louis, MO Enrolled: Fall 2021— Expected Graduation: Spring 2026

PhD in Mathematics

Thesis Advisor: Renato Feres

Georgia Institute of Technology

Fall 2014-Spring 2019

BS in Mathematics

RESEARCH INTERESTS

Some of my interests are dynamics, stochastic processes, and ergodic theory.

In particular, I am interested in dynamical billiards. Specifically, I am focused on polygonal billiards and the topology of their unfoldings, and I wish to understand these unfoldings using both topological and stochastic methods.

PUBLICATIONS

Don't rush me!

TEACHING EXPERIENCE

Washington University in St. Louis

- Calculus III Lecturer Summer 2024
- Directed Reading Program, *Geometry: Euclid and Beyond* Spring 2024
- Calculus I Teaching Assistant Spring 2024
- Calculus II Teaching Assistant Fall 2023
- Calculus II Teaching Assistant Spring 2023

Georgia Institute of Technology

- Calculus III Teaching Assistant Spring 2019
- Calculus III Teaching Assistant Fall 2018
- Calculus III Teaching Assistant Spring 2018
- Calculus III Teaching Assistant Fall 2017
- Calculus III Teaching Assistant Fall 2016

TALKS

- Szegő Seminar, Washington University in St. Louis, *What an Incidence!: Hilbert's Axioms in Geometry* - March 2024
- Candidacy Talk, Washington University in St. Louis, *Unfolding a Billiard Table* - March 2024
- Lightning Talk, St. Louis Topology Conference, *Unfolding a Billiard Table* - May 2024

SERVICE

- Organizer at St. Louis Topology Conference 2024