MARC GOTLIBOYM

Michigan State University
Department of Mathematics

marcg57@msu.edu

ACADEMIC INTERESTS

Homotopy theory, algebraic K-theory, and trace methods.

EDUCATION

Michigan State University

Ph.D. in Mathematics (Expected graduation: 2026).

Advisor: Teena Gerhardt.

Stevens Institute of Technology

M.S. in Mathematics, 2018.

B.S. in Computer Science, 2018 with high honors.

Senior Thesis: *A Foundation for Over- and Under-Approximating Monitors Analyzing Information Flow.* Advisor: David Naumann.

SEMINAR TALKS

Quillen's Q-Construction of Algebraic K-Theory. eCHT Kan Seminar, eCHT, 2023.

Covering Spaces. Algebra Learning Seminar, Michigan State University, 2023.

H-Spaces and Hopf Algebras. Student Topology and Geometry Seminar, Michigan State University, 2022.

Exploring Conway's Game of Life on Various Compact Topologies. Mathematics Seminar Series, Scranton University, 2017.

TEACHING EXPERIENCE

Michigan State University

Instructor, *Calculus I* — MTH 132 (Summer 2022, Fall 2022).

Teaching Assistant, *Differential Equations* — MTH 235 (Spring 2023).

Teaching Assistant, *Introduction to Proofs* — MTH 299 (Fall 2023).

Stevens Institute of Technology

Teaching Assistant, *Principles of Programming Languages* — CS 496 (2017).

Conferences Attended

- Algebraic K-theory and Redshift, Mainz 2023

- Scissors Congruence, Algebraic K-theory, and Trace Methods, Indiana University 2023

- Midwest Topology Seminar, Purdue University 2023

Awards

Stephen L. Bloom Theoretical Computer Science Award, 2018.