

ERIC COCHRAN

CURRICULUM VITAE

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Syracuse University
Syracuse, New York 13244

EDUCATION

Syracuse University <i>Ph.D., Mathematics</i> <i>Advisor: William Wylie</i>	Expected May 2026
Syracuse University <i>M.S., Mathematics</i>	May 2022
Johns Hopkins University <i>B.S., Computer Science; M.A, Mathematics</i>	May 2020

PREPRINTS AND PUBLICATIONS

1. *Killing Fields on Compact m -quasi Einstein Manifolds*, 2024. To appear in *Proceedings of the AMS*.

CONFERENCE AND COLLOQUIUM TALKS

New York State Regional Graduate Mathematics Conference, Syracuse University. <i>Title: Killing Fields on Compact m-quasi Einstein Manifolds</i>	<i>April 2024</i>
†Math Graduate Organization Colloquium, Syracuse University. <i>Title: What is Curvature?</i>	<i>April 2024</i>

*Upcoming

†Expository

MENTORING

Directed Reading Program

Syracuse University

Mentored undergraduate students on semester-long independent study projects which fall outside the typical curriculum at Syracuse University

- Project: Automata Theory
Mentee: Athanasios Hadjidimoulas *Spring 2022*
- Project: Integration on Manifolds
Mentee: Aksel Malatak *Fall 2023*

Peer Mentoring Program

Fall 2023, Spring 2024

Syracuse University

Mentored first-year graduate students in the mathematics department by meeting several times over the course of each semester to discuss adjusting to graduate school

TEACHING

Syracuse University

Served as the instructor of record for the following courses:

- MAT 285 (Calculus I for Life Sciences), *Spring 2022*
- MAT 295 (Calculus I), *Summer 2022, Fall 2023, Spring 2024*
- MAT 397 (Calculus III), *Summer 2023*

Served as a recitation leader for the following courses:

- MAT 221 (Probability and Statistics I), *Fall 2020*
- MAT 284 (Business Calculus), *Spring 2021*
- MAT 295 (Calculus I), *Fall 2021*
- MAT 296 (Calculus II), *Fall 2022, Spring 2023*
- MAT 397 (Calculus III), *Fall 2024*

Johns Hopkins University

Served as a recitation leader for the following courses:

- AS.110.106 (Calculus I for Biological Sciences), *Fall 2019, Spring 2020*
- AS.110.107 (Calculus II for Biological Sciences), *Spring 2019*
- AS.110.201 (Linear Algebra), *Fall 2018*

CONFERENCES AND WORKSHOPS ATTENDED

Kansas Geometric Analysis Conference, Wichita State University.	<i>April 2024</i>
Graduate Student Topology and Geometry Conference, Michigan State University.	<i>April 2024</i>
Topics in Geometric Flows and Minimal Surfaces, SLMath, St. Mary's College.	<i>June 2023</i>
Graduate Student Conference in Algebra, Geometry, and Topology, Temple University.	<i>May 2023</i>
New York State Regional Graduate Mathematics Conference, Syracuse University.	<i>April 2023</i>
3rd Upstate New York Topology Seminar, Syracuse University.	<i>October 2022</i>
New York State Regional Graduate Mathematics Conference, Syracuse University.	<i>April 2022</i>