

# ERIC COCHRAN

## CURRICULUM VITAE

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215 Carnegie  
Syracuse University  
Syracuse, New York 13244

## EDUCATION

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

## PREPRINTS AND PUBLICATIONS

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1. Killing fields on compact  $m$ -quasi-Einstein manifolds. Proc. Amer. Math. Soc. **153** (2025), pp. 841-849.

## CONFERENCE AND COLLOQUIUM TALKS

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- Joint Math Meetings, Seattle, WA *January 2025*  
AMS Special Session on Geometric PDE and Mathematical Physics  
*Title: Killing Fields on Compact  $m$ -quasi Einstein Manifolds*
- New York State Regional Graduate Mathematics Conference, Syracuse University. *April 2024*  
*Title: Killing Fields on Compact  $m$ -quasi Einstein Manifolds*
- †Math Graduate Organization Colloquium, Syracuse University. *April 2024*  
*Title: What is Curvature?*
- †Expository

## MENTORING

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### 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 *Spring 2022*  
Mentee: Athanasios Hadjidimoulas
- Project: Integration on Manifolds *Fall 2023*  
Mentee: Aksel Malatak
- Project: Minimal Surfaces *Spring 2025*  
Mentee: Keval Mehta

## 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

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### 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, Spring 2025*

### 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

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Joint Math Meetings, Seattle, WA	<i>January 2025</i>
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>