

# Zoë Pope

📍 Albany, NY, USA

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🔗 zoe-pope.github.io

## Research Interests

I am interested in homotopy theory, particularly equivariant and stable homotopy theory, and  $\infty$ -category theory.

## Education

### University at Albany, State University of New York

*Master of Arts in Mathematics, advised by Marco Varisco*

*Sept 2024 - May 2026*

*(expected)*

*Thesis Title: The Global Orbit  $\infty$ -Category and Applications to Assembly Maps*

### University at Albany, State University of New York

*Bachelor of Science, Mathematics major, Physics minor*

*Sept 2022 - May 2024*

- GPA: 3.78/4.0 (Summa Cum Laude)

## Talks

UAlbany Graduate Student Seminar, *A Crash Course on Category Theory*

*upcoming, Mar 2026*

Binghamton University Graduate Combinatorics, Algebra, and Topology

*Nov 2025*

Conference (BUGCAT) 2025, *The Global Orbit Category and Assembly Maps*

UAlbany Algebra/Topology Seminar,

*Nov 2025*

*Proving Homological Stability Using the Randal-Williams–Wahl Machine*

Talbot 2025 Workshop on Homological Stability,

*May 2025*

*The Randal-Williams–Wahl Machine*

UAlbany Applied Topology in Albany Seminar (ATiA),

*Apr 2025*

*Rectifications of Homotopy Interleaving Distances*

## Workshops/Conferences Attended

FRG Workshop on Higher Categories and Geometry 2026 *in Chicago, IL*

*upcoming, Mar 2026*

Midwest Topology Seminar Winter 2026 *in Cleveland, OH*

*Feb 2026*

BUGCAT 2025 *in Binghamton, NY*

*Nov 2025*

Young Homotopy Theorist Meeting *in Edinburgh, Scotland*

*Oct 2025*

European Autumn School in Topology *in Den Dolder, Netherlands*

*Sept 2025*

Talbot 2025 Workshop on Homological Stability *in Cassopolis, MI*

*May 2025*

Cornell Topology Festival *in Ithaca, NY*

*May 2025*

Atlantic Meeting on Topology, Representation theory, and K-theory (AMTRaK)  
*in Philadelphia, PA*

*Apr 2025*

Upstate New York Topology Seminar *in Binghamton, NY*

*Mar 2025*

BUGCAT 2024 *in Binghamton, NY*

*Nov 2024*

Fall 2024 AMS Eastern Sectional Meeting *in Albany, NY*

*Oct 2024*

## Teaching

### University at Albany, State University of New York

AMAT 100 Precalculus

*Spring 2026*

## Other Experience

### Teaching Assistant

*Sept 2024 - Present*

Tutoring students in UAlbany's math department tutoring center, as well as proctoring and grading exams.

**Mathematics Tutor***Aug 2023 - Aug 2024*

Tutored university students through UAlbany's Educational Opportunity Program and Collegiate Science and Technology Entry Program. Also tutored K-12 students while working for a private tutoring center.

**Undergraduate Research Fellow***July 2023 - Aug 2023*

Designed a classifier for artificial intelligence training to sort weighted and attributed graphs by similarity. Under the advisement of Abram Magner in UAlbany's Computer Science department.