

# Zoë Pope

📍 Albany, NY, USA    ✉ mpope@albany.edu    🌐 zoe-pope.github.io    🗣 Zoe-Pope

## Research Interests

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I am interested in higher category theory and homotopy theory.

## Education

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### SUNY University at Albany

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

*Sept 2024 - May 2026  
(expected)*

### SUNY University at Albany

*Bachelor of Science, Mathematics major, Physics minor*

- GPA: 3.78/4.0 (Summa Cum Laude)

*Sept 2022 - May 2024*

## Talks

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Albany Student Seminar, *What are  $\infty$ -categories?*

*Nov 2025*

UAlbany Algebra/Topology Seminar, *An introduction to homological stability*

*Nov 2025*

Talbot 2025, *Homological stability of automorphism groups*

*May 2025*

Albany ATiA Seminar, *Rectifications of homotopy interleaving distances*

*Apr 2025*

## Conferences Attended

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Young Homotopy-Theorist Meeting

*Oct 2025*

European Autumn School in Topology

*Sept 2025*

Talbot 2025

*May 2025*

Cornell Topology Festival

*May 2025*

Atlantic Meeting on Topology, Representation theory, and K-theory

*Apr 2025*

Upstate New York Topology Seminar

*Mar 2025*

Binghamton Combinatorics, Algebra, and Topology Conference (BUGCAT)

*Nov 2024*

Fall 2024 AMS Eastern Sectional Meeting

*Oct 2024*

## Other Experience

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### Master's Thesis

*Sept 2024 - Present*

Exploring the global orbit  $\infty$ -category for discrete groups with applications to equivariant homotopy theory. Under the advisement of Marco Varisco.

### Graduate Assistant

*Sept 2024 - Present*

Tutoring students and helping to proctor and grade exams as part of the graduate program.

### Mathematics Tutor

*Aug 2023 - Aug 2024*

Gave tutoring to university students through UAlbany's Educational Opportunity Program as well as their Collegiate Science and Technology Entry Program. Also gave tutoring to k-12 students while working for the tutoring center Mathnasium.

### Undergraduate Research Fellow

*July 2023 - Aug 2023*

Designed a classifier for artificial intelligence training to sort attributed graphs by similarity. Under the advisement of Dr. Abram Wagner.