

# Zoë Pope

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## Research Interests

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

## Education

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**University at Albany, State University of New York** Sept 2024 - May 2026  
(expected)  
*Master of Arts in Mathematics, advised by Marco Varisco*  
*Thesis Title: The Global Orbit  $\infty$ -Category and Applications to Assembly Maps*

**University at Albany, State University of New York** Sept 2022 - May 2024  
*Bachelor of Science, Mathematics major, Physics minor*  
 ◦ GPA: 3.78/4.0 (Summa Cum Laude)

## Talks

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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

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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) Apr 2025  
*in Philadelphia, PA*  
 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

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**University at Albany, State University of New York**  
 AMAT 100 Precalculus Spring 2026

## Other Experience

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**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.