Zoë Pope

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Research Interests

I am interested in homotopy theory, particularly equivariant and stable homotopy theory, and ∞-category theory.

Education

University at Albany, State University of New York	*Sept 2024 - May 2026*
Master of Arts in Mathematics, advised by Marco Varisco	*(expected)*
Thesis Title: The Global Orbit ∞-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

UAlbany Graduate Student Seminar, *A Crash Course on Category Theory*	*upcoming, Feb-Mar 2026*
Binghamton University Graduate Combinatorics, Algebra, and Topology Conference (BUGCAT) 2025, *The Global Orbit Category and Assembly Maps*	*Nov 2025*
UAlbany Algebra/Topology Seminar, *Proving Homological Stability Using the Randal-Williams–Wahl Machine*	*Nov 2025*
Talbot 2025 Workshop on Homological Stability, *The Randal-Williams–Wahl Machine*	*May 2025*
UAlbany Applied Topology in Albany Seminar (ATiA), *Rectifications of Homotopy Interleaving Distances*	*Apr 2025*

Workshops/Conferences Attended

Midwest Topology Seminar Winter 2026 *in Cleveland, OH*	*upcoming, 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.