

Zoë Pope

📍 Albany, NY, USA ✉️ zoe@worknotes.org 🔗 zoe-pope.github.io 👤 Zoe-Pope

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
Master of Arts in Mathematics, advised by Marco Varisco

*Sept 2024 - May 2026
(expected)*

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

Workshops/Conferences Attended

BUGCAT 2025 in Binghamton, NY	<i>Nov 2025</i>
Young Homotopy-Theorist Meeting in Edinburgh, Scotland	<i>Oct 2025</i>
European Autumn School in Topology in Den Dolder, Netherlands	<i>Sept 2025</i>
Talbot 2025 Workshop on Homological Stability in Cassopolis, MI	<i>May 2025</i>
Cornell Topology Festival in Ithaca, NY	<i>May 2025</i>
Atlantic Meeting on Topology, Representation theory, and K-theory (AMTRaK) in Philadelphia, PA	<i>Apr 2025</i>
Upstate New York Topology Seminar in Binghamton, NY	<i>Mar 2025</i>
BUGCAT 2024 in Binghamton, NY	<i>Nov 2024</i>
Fall 2024 AMS Eastern Sectional Meeting in Albany, NY	<i>Oct 2024</i>

Other Experience

Master's Thesis	<i>Due May 1, 2026</i>
Title: <i>The Global Orbit ∞-Category and Applications to Assembly Maps.</i> Advisor: Marco Varisco.	
Teaching Assistant	<i>Sept 2024 - Present</i>
Tutoring UAlbany undergraduate students as well as proctoring and grading exams.	
Mathematics Tutor	<i>Aug 2023 - Aug 2024</i>
Tutored university students through UAlbany's Educational Opportunity Program as well as their Collegiate Science and Technology Entry Program. Also tutored K-12 students while working for the tutoring center Mathnasium.	
Undergraduate Research Fellow	<i>July 2023 - Aug 2023</i>
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.	