

RESEARCH INTERESTS

Algebraic Topology and Algebraic Geometry, with a particular emphasis on homotopy theory.

EDUCATION

•University of Wisconsin–Madison	Aug 2025 – Present
M.S. in Mathematics	Madison, WI, USA
•Shanghai Jiao Tong University	Sep 2021 – Jun 2025
B.S. in Mathematics and Applied Mathematics (Zhiyuan Honors Program)	Shanghai, China

EXCHANGE PROGRAMS

•University of Wisconsin–Madison	Sep 2024 – May 2025
Visiting International Student Program (VISP)	Madison, WI, USA

PAPERS

•Motivic Homotopy Theory	Shanghai, China
Undergraduate thesis - A comprehensive exposition of unstable and stable motivic homotopy theory as well as its connection with various spectra in algebraic topology. Supervised by Pr.Yong Hu. <a href="#">[PDF]</a>	May 2025

SEMINAR TALKS

•BBDG Decomposition	TBD
Intersection Homology Reading Seminar <a href="#">[Link]</a>	University of Wisconsin–Madison
•Serre Spectral Sequence-I, II, III & Adams Spectral Sequence-I	Sep–Oct 2025
Spectral Sequence in Algebraic Topology Reading Seminar (Organizer) <a href="#">[Link]</a>	University of Wisconsin–Madison
•Sheaf Theory & Properties of Schemes & Homological Algebra	Sep–Nov 2024
Algebraic Geometry Reading Seminar	University of Wisconsin–Madison
•Topology of Profinite Groups	May 2024
Topic Course IV	Shanghai Jiao Tong University
•Characteristic Classes and Vector Bundles	Dec 2023
Topic Course III	Shanghai Jiao Tong University
•Reinforcement Learning	Apr 2023
Topic Course II	Shanghai Jiao Tong University
•Non-standard Analysis	Dec 2022
Topic Course I	Shanghai Jiao Tong University

CONFERENCES & SUMMER SCHOOLS ATTENDED

•Equivariant, Motivic, and Physical Topology in the Midwest	Oct 2025
Developments in equivariant and motivic homotopy theory	Minnesota, USA
•International Workshop on Algebraic Topology 2025	Jul 2025
Computations with the Adams Spectral Sequence and the Last Kervaire Invariant Problem	Hangzhou, China
•International Workshop on Algebraic Topology 2024	May 2024
Motivic Stable Homotopy Theory	Shanghai, China
•AI for Mathematics(Winter Training Program 2023-2024)	Jan 2024
Mathematical Formalization and Theorem Proving	Beijing, China
• $\infty$ -type Café Summer School 2023	Jul 2023
Type Theory	<a href="#">[Online]</a>
•Fudan Logic Summer School 2023	Jul–Aug 2023
Model Theory of Nonabelian Free Groups & Nonstandard Analysis and Combinatorial Number Theory	Shanghai, China

INTERNSHIPS

•"AI for Mathematics" Internship Program	Aug-Sep 2025
Formal Data annotation in abstract algebra	Beijing International Center for Mathematical Research

HONORS AND AWARDS

Outstanding Undergraduate Scholarship, Shanghai Jiao Tong University	Dec 2024
Zhiyuan Honors Scholarship, Shanghai Jiao Tong University	Nov 2024
Zhiyuan Honors Scholarship, Shanghai Jiao Tong University	Nov 2023
Zhiyuan Honors Scholarship, Shanghai Jiao Tong University	Nov 2022
Zhiyuan Honors Scholarship, Shanghai Jiao Tong University	Nov 2021

SKILLS

Languages: Mandarin Chinese (Native), English (Fluent)
Programming: LaTeX, Lean
Development: Git