





Xingzhi Huang

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University of Wisconsin-Madison

RESEARCH INTERESTS

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

EDUCATION

- **University of Wisconsin–Madison** *Sep 2024 – Present*
VISP-MA 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*

PAPERS

- **Motivic Homotopy Theory** *Shanghai, China*
Undergraduate thesis - A comprehensive exposition of unstable and stable motivic homotopy theory. Supervised by Pr.Yong Hu. [\[PDF\]](#) *May 2025*

SEMINAR TALKS

- **Serre Spectral Sequence-I, II, III & Adams Spectral Sequence-I, II** *Sep–Nov 2025*
Spectral Sequence in Algebraic Topology Reading Seminar (Organizer) [\[Link\]](#) *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*
- **∞ -type Café Summer School 2023** *Jul 2023*
Type Theory [\[Online\]](#)
- **Fudan Logic Summer School 2023** *Jul–Aug 2023*
Model Theory of Nonabelian Free Groups & Nonstandard Analysis and Combinatorial Number Theory *Shanghai, China*

DIRECTED STUDY

- **Intersection Homology & Perverse Sheaves** *Sep 2025 – Present*
Supervised by Laurentiu Maxim *University of Wisconsin–Madison*
- **Algebraic Geometry-II** *Sep–Dec 2024*
Co-supervised by Dima Arinkin, Andrei Caldararu, and Joshua Mundinger *University of Wisconsin–Madison*

INTERNSHIPS

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

HONORS AND AWARDS

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| 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

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