

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

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

EXCHANGE PROGRAMS

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| • University of Wisconsin–Madison
Visiting International Student Program (VISP) | <i>Sep 2024 – May 2025</i>
Madison, WI, USA |
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PAPERS

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| • Motivic Homotopy Theory
Undergraduate thesis - An exposition of motivic homotopy theory. Supervised by Pr.Yong Hu. [PDF] | <i>Shanghai, China</i>
May 2025 |
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SEMINAR TALKS

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

CONFERENCES & SUMMER SCHOOLS ATTENDED

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