

Yuyan He

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I work in the subfield of mathematical logic called model theory, and I am particularly interested in its interaction with combinatorics.

Education

University of California, Los Angeles

B.S. in Mathematics

2018-2022

Honors: Summa Cum Laude, departmental highest honor

University of Notre Dame

Ph.d. candidate in Mathematics

2022–present

Advised by Sergei Starchenko

Research

Select Talks.....

University of Notre Dame

Candidacy exam

Pseudo-finite dimensions and linear algebraic groups

Feb 2024

Hrushovski's treatment of approximate subgroups of linear groups

University of Maryland, College Park

Logic Seminar

Sum-product phenomenon in fields with dimension

Feb 2026

On joint work with Sergei Starchenko

Teaching

As Teaching Assistant at University of Notre Dame

Fall 2023: Math 10350 Calculus A

Spring 2024: Math 10560 Calculus II

Fall 2024: Math 10450 Glynn Mathematics Seminar I

Spring 2025: Math 10860 Honors Mathematics II

As Lecturer at University of Notre Dame

Fall 2025: Math 12560 Calculus II

Funded Workshops

UNIMOD 2022

University of Leeds

July-August 2022

Schools and workshop in model theory

Fudan Logic Summer School

Fudan University

August 2023

Graduate Workshop in Logic and Combinatorics

University of Illinois, Chicago

August 2026

Service

University of Notre Dame

Graduate Student Logic Seminar

Co-organizer

2023-2024

University of Notre Dame

Graduate Student Conference in Logic

Co-organizer

Spring 2025

Awards

2022: Daus Memorial Award, University of California, Los Angeles

2023,2024,2026: ASL Student Travel Award