KEVIN ZHOU

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https://kevinzhou96.github.io/

EMPLOYMENT

2025 – **National Institute of Informatics**, Tokyo, Japan
Researcher, Research Center for Mathematical Trust in Software and Systems

EDUCATION

August 2024 **Ph.D. in Pure Mathematics**
University of Illinois at Chicago
Advisor: James Freitag
Dissertation title: "Model Theory and AI: Results in Query Learning of Automata and Weighted Model Counting"

May 2018 **B.S. in Mathematical Sciences** (with University Honors)
Carnegie Mellon University

RESEARCH

INTERESTS

Formal methods, automated verification, logic

PAPERS

Radu-Florin Tulcan, Rose Bohrer, Yoáv Montacute, **Kevin Zhou**, Yusuke Kawamoto, Ichiro Hasuo. Hybrid Spatio-Temporal Logic for Automotive Applications: Modeling and Model-Checking. *FM* 2026.
Kevin Zhou. Query learning bounds for advice and nominal automata. *ATVA* 2024.

INVITED TALKS

April 2024	AMS Central Sectional Meeting | University of Wisconsin-Milwaukee
April 2024	UIC Logic Seminar | University of Illinois Chicago
March 2023	AMS Southeastern Sectional Meeting | Georgia Institute of Technology
October 2022	UIC Logic Seminar | University of Illinois Chicago
April 2022	ASL North American Annual Meeting | Cornell University

AWARDS & GRANTS

Spring 2024	Graduate Student Teaching Award
Spring 2022	UIC NSF TRIPODS Research Fellow
Summer 2019	UIC NSF RTG Pre-doctoral Fellow

TEACHING

AT UIC:

As Instructor of Record:

MATH 090 Intermediate Algebra
MATH 179 Emerging Scholars Program Workshop for Calculus I
MATH 294 Emerging Scholars Program Workshop for Introduction to Advanced Mathematics
MATH 294 Emerging Scholars Program Workshop for Abstract Algebra I

As Teaching Assistant:

MCS 260 Introduction to Computer Science
MATH 090 Intermediate Algebra
MATH 110 College Algebra
MATH 125 Elementary Linear Algebra
MATH 180 Calculus I

As Grader:

MATH 330 Abstract Algebra I

AT CMU:

As Teaching Assistant:

21-127 Concepts of Mathematics
15-251 Great Theoretical Ideas in Computer Science

OTHER:

2019 – 2023	Lead Instructor, Math Circles of Chicago
Fall 2022	TA, Preliminary Arizona Winter School, Introduction to model theory
2022 & 2024	Graduate Student Instructor, Young Scholars Program at UIC

SERVICE

2024	Mentor, Directed Reading Program at UIC
2023	Co-organizer, 23rd Graduate Student Conference in Logic
2021 – 2024	Co-organizer, UIC Louise Hay Logic Seminar (Graduate Logic Seminar)
2019 – 2020	Secretary, UIC Mathematics Graduate Students' Association

OTHER EXPERIENCE

Summer 2023	Student Researcher & Project Lead, G-RIPS Sendai Project Title: Automated Negotiation for Supply Chain Management
Summer 2017	Undergradute Research Assistant, CMU Electrical and Computer Engineering Project Title: Cascading Failures in Power Systems
Summer 2016	Software Engineering Intern, Baidu Security X-Lab, Baidu USA