

Caleb Schultz Kisby

RESEARCH INTERESTS

- Logical foundations of artificial intelligence
- Dynamic logics for belief revision and learning
- Neuro-symbolic AI
- Neural network verification and alignment

EDUCATION

- 2018 – PRESENT **PhD Candidate**, Indiana University, Bloomington, USA
PhD in Computer Science (in progress), minor in Logic.
Jointly advised by Larry Moss and Saúl A. Blanco
- 2014 – 2018 **Bachelors**, University of South Carolina, Columbia, USA
BSCS in Computer Science, BS in Mathematics, *Summa Cum Laude*

SELECTED HONORS AND AWARDS

- MAY 2025 Received the Robert K. Meyer Graduate Fellowship in Logic, Indiana University
- MAR 2024 Received the SCALE Ambassador Award, US Department of Defense
- MAY 2022 “The Logic of Hebbian Learning” nominated for Best Student Paper at FLAIRS 2022
- AUG 2019 Received the Paul Purdom Fellowship, awarded to one outstanding PhD student each year with interests in theoretical computer science, Indiana University
- JAN 2017 Received the Magellan Scholar Undergraduate Research Grant, USC Columbia

INVITED TALKS AND WORKSHOPS

- JUN 2025 Course for the North American Summer School for Logic, Language and Information, co-teaching with Nina Gierasimczuk
Course Title: *Computational Learning in Dynamic Logics*
- SEP 2024 Seminar on Logic and Interactive Rationality (LIRa), Institute for Logic, Language, and Computation (ILLC), University of Amsterdam, Online
The Modeling Power of Neural Networks
- JAN 2024 1st General Algebra, Logic & AI Workshop, Chapman University, Orange, USA
Logical Dynamics of Neural Network Learning

SELECTED CONFERENCE TALKS

- FEB 2024 AAAI Conference on Artificial Intelligence, Vancouver, Canada
Reduction Axioms for Iterated Hebbian Learning
- MAY 2022 The International Florida AI Research Society Conference (FLAIRS), Jensen Beach, USA
The Logic of Hebbian Learning

OTHER PROFESSIONAL ACTIVITIES

- FEB 2024 Volunteer for the AAAI Conference on Artificial Intelligence, Vancouver, Canada
- NOV 2023 Reviewer for the AAAI Workshop on Neuro-Symbolic Learning and Reasoning in the era of Large Language Models (NucLeaR)
- JUL 2023 Participated in the Workshop on Neural-Symbolic Learning and Reasoning, Siena, Italy
- JUN 2023 Local Organizer for Algebra and Coalgebra in Computer Science (CALCO), & Mathematical Foundations of Programming Semantics (MFPS), Bloomington, USA
- SEP 2019 Reviewer for the Journal of Logic, Language, and Information (JoLLI)