Jialiang (Jack) Sun

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SUMMARY

I am a first-year Ph.D. student at the University of Toronto in the Department of Computer Science, supervised by Professor Kuldeep Meel. My research intersects machine learning and formal methods, with a specialized focus on advancing automated symbolic reasoning through machine learning techniques. In particular, I aim to empower computers with the ability to perform mathematical reasoning and theorem proving within the realms of logic and mathematics.

EDUCATION

Doctor of Philosophy, Computer Science   2023.09 - 2027.09

– University of Toronto, Canada
– Supervisor: Prof. Kuldeep Meel
– Area of Interest: AI, Machine Learning, Automated Reasoning

Honours Bachelor of Science, Computer Science   2021.09 - 2023.06

– Area of Study: Computer Science (Major), Mathematics (Minor), and Statistics (Minor).
– Cumulative GPA: 3.99/4.00
– Dean's List Scholar for 2021-2023 academic terms.

AWARDS

Ontario Graduate Scholarship (OGS)   2024.06

– OGS is a merit-based scholarships to Ontario's best graduate students in all disciplines of academic study with a value of CA$15,000 for one year.

PUBLICATIONS

Autoformalizing Euclidean Geometry   ICML 2024

Logan Murphy*, Kaiyu Yang* Jialiang Sun, Zhaoyu Li, Anima Anandkumar, Xujie Si
International Conference on Machine Learning, 2024

A Survey on Deep Learning for Theorem Proving   COLM 2024

Zhaoyu Li, Jialiang Sun, Logan Murphy, Qidong Su, Zenan Li, Xian Zhang, Kaiyu Yang, Xujie Si
Conference on Language Modeling, 2024

SERVICES

Reviewer   2024.02 - Now

– Neural Information Processing Systems (Neurips 2024)
– Transactions on Machine Learning Research (TMLR 2024)