

Jiong Yang

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Education

- Present **Georgia Institute of Technology** – Atlanta, USA
PhD in Computer Science
Advisor: Kuldeep S. Meel
Transferred from **National University of Singapore**.
- 2016 – 2020 **Xi'an Jiaotong University** – Xi'an, China
BEng in Computer Science (Honors)
GPA: 4.02 / 4.3, Rank: 1 / 31.

Publications

- 2025 **Efficient Certified Reasoning for Binarized Neural Networks**
Jiong Yang, Yong Kiam Tan, Mate Soos, Magnus O. Myreen, and Kuldeep S. Meel.
International Conference on Theory and Applications of Satisfiability Testing (SAT)
Best Student Paper Runner-Up Award
- 2025 **Towards Real-Time Approximate Counting**
Yash Pote Ⓜ Kuldeep S. Meel Ⓜ Jiong Yang.
Annual AAAI Conference on Artificial Intelligence (AAAI) [Oral]
② random order
- 2024 **Quantum Circuit Mapping Based on Incremental and Parallel SAT Solving**
Jiong Yang, Yaroslav A. Kharkov, Yunong Shi, Marijn Heule, and Bruno Dutertre.
International Conference on Theory and Applications of Satisfiability Testing (SAT)
Best Student Paper Runner-Up Award
- 2024 **Formally Certified Approximate Model Counting**
Yong Kiam Tan*, Jiong Yang*, Mate Soos, Magnus O. Myreen, and Kuldeep S. Meel.
International Conference on Computer Aided Verification (CAV)
* equal contribution
Distinguished Paper Award
- 2023 **Explaining SAT Solving Using Causal Reasoning**
Jiong Yang, Arijit Shaw, Teodora Baluta, and Kuldeep S. Meel.
International Conference on Theory and Applications of Satisfiability Testing (SAT)

- 2023 **Rounding Meets Approximate Model Counting**
 Jiong Yang and Kuldeep S. Meel.
 International Conference on Computer Aided Verification (CAV)
 Distinguished Paper Award
- 2022 **Projected Model Counting: Beyond Independent Support**
 Jiong Yang, Supratik Chakraborty, and Kuldeep S. Meel.
 International Symposium on Automated Technology for Verification and Analysis (ATVA)
- 2021 **Engineering an Efficient PB-XOR Solver**
 Jiong Yang and Kuldeep S. Meel.
 International Conference on Principles and Practice of Constraint Programming (CP)
- 2020 **Learning Formatting Style Transfer and Structure Extraction for Spreadsheet Tables with a Hybrid Neural Network Architecture**
 Haoyu Dong, Jiong Yang, Shi Han, and Dongmei Zhang.
 International Conference on Information and Knowledge Management (CIKM)

Talks

- Mar 2025 **Towards Real-Time Approximate Counting**
 AAAI 2025, Philadelphia, USA.
- Feb 2025 **Scalable and Trustworthy Approximate Counting**
 Georgia Tech PLSE Seminar, Atlanta, USA.
- Dec 2024 **Quantum Circuit Mapping Based on Incremental and Parallel SAT Solving**
 SG Programming Languages Summit, Singapore.
- Aug 2024 **Quantum Circuit Mapping Based on Incremental and Parallel SAT Solving**
 SAT 2024, Pune, India.
- Aug 2024 **Formally Certified Approximate Model Counting**
 Workshop on Counting, Sampling, and Synthesis 2024, Pune, India.
- Apr 2024 **Formally Certified Approximate Model Counting**
 UoT Modeling seminar, Toronto, Canada.
- Aug 2023 **Rounding Meets Approximate Model Counting**
 NUS PLSE seminar, Singapore.
- Jul 2023 **Rounding Meets Approximate Model Counting**
 CAV 2023, Paris, France.
- Jul 2023 **Explaining SAT Solving Using Causal Reasoning**
 SAT 2023, Alghero, Italy.
- Jul 2023 **Rounding Meets Approximate Model Counting**
 Workshop on Counting and Sampling 2023, Alghero, Italy.

Apr 2023	Explaining SAT Solving Using Causal Reasoning Extended Reunion: Satisfiability, Simons Institute, UC Berkeley, USA.
Oct 2022	Projected Model Counting: Beyond Independent Support ATVA 2022, Beijing, China.
Oct 2021	Engineering an Efficient PB-XOR Solver CP 2021, Montpellier, France.

Honors and Awards

2025 & 2024	SAT Best Student Paper Runner-Up Award
2024 & 2023	CAV Distinguished Paper Award
2021	President's Graduate Fellowship
2020	Outstanding Graduates
2019	Undergraduate Special Scholarship
2018	ACM-ICPC Asia Regional Contest Silver Medal
2018 & 2017	National Scholarship

Experience

Summer 2024	Amazon Web Services – San Francisco Bay Area, USA
Summer 2023	Applied Scientist Intern in Automated Reasoning Group
Summer 2022	Manager: Bruno Dutertre
Spring 2024	University of Toronto – Toronto, Canada
	Visiting Graduate Student
Spring 2023	Simons Institute – UC Berkeley, USA
	Visiting Graduate Student in Extended Reunion: Satisfiability
Summer 2019	Microsoft Research – Beijing, China
	Research Intern in Data Knowledge Intelligence Group
	Mentor: Haoyu Dong

Teaching

Spring 2023	National University of Singapore – Singapore
	Teaching Assistant
Fall 2021	Knowledge Representation and Reasoning (CS4244)
	Introduction to Artificial Intelligence (CS3243)

Xi'an Jiaotong University – Xi'an, China
Teaching Assistant
Fall 2019 Programming Fundamentals

Service

Artifact Evaluation Committee: CAV 2025, TACAS 2025, CAV 2024, TACAS 2024.

Reviewer: AAAI 2026, NeurIPS 2025, ICML 2025, AISTATS 2025, ICLR 2025, CP 2024,
NeurIPS 2024, NeurIPS 2023, CAV 2023, SAT 2023, NeurIPS 2022.

Webmaster: [SAT 2022](#) and [Meel Group](#).