

Jiong Yang

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Education

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

Honor and Award

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

Publication

- 2025 **Towards Real-Time Approximate Counting**
Yash Pote ☯ Kuldeep S. Meel ☯ Jiong Yang.
Annual AAAI Conference on Artificial Intelligence (AAAI) [Oral]
☯ random order
- 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

- 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 **Rounding Meets Approximate Model Counting**
Jiong Yang and Kuldeep S. Meel.
International Conference on Computer Aided Verification (CAV)
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)
- 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)

Talk

- Aug 2025 **Efficient Certified Reasoning for Binarized Neural Networks**
SAT 2025, Glasgow, Scotland.
- Aug 2025 **Towards Real-Time Approximate Counting**
Workshop on Counting, Sampling, and Synthesis 2025, Glasgow, Scotland.
- Aug 2025 **Explaining SAT Solving Using Causal Reasoning**
Workshop on Explanations with Constraints and Satisfiability, Glasgow, Scotland.

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.

Experience

Summer 2025	Nanyang Technological University – Singapore Visiting Graduate Student
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 Experience

Georgia Institute of Technology – Atlanta, USA
Teaching Assistant

Fall 2025 Automata and Complexity (CS4510)

National University of Singapore – Singapore
Teaching Assistant

Spring 2023 Knowledge Representation and Reasoning (CS4244)
Fall 2021 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](#).