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

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

	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: 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.