Jiong Yang

jiong@gatech.edu · https://al-jiongyang.github.io/

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)
⊙ 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: 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.