Jiong Yang

jiong@comp.nus.edu.sg · https://al-jiongyang.github.io/

Education

Present National University of Singapore – Singapore

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.

Publications

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)*

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)

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)
	international conference on high matter and the medge management (cital)
	Talks
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
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
2017	National Scholarship
	Evropionos
	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 2024, TACAS 2024.

Reviewer: CP 2024, NeurIPS 2024, NeurIPS 2023, CAV 2023, SAT 2023, NeurIPS 2022.

Webmaster: SAT 2022 and Meel Group.