Jiong Yang

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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)

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
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 2024, TACAS 2024.

Reviewer: ICLR 2024, CP 2024, NeurIPS 2024, NeurIPS 2023, CAV 2023, SAT 2023,

NeurIPS 2022.

Webmaster: SAT 2022 and Meel Group.