Yash Pote

Ph.D. Candidate   Email: yashppote@gmail.com
School of Computing   Web: https://yashpote.com
National University of Singapore

EDUCATION

Ph.D.   School of Computing, National University of Singapore, 2019-

B.Tech.   Computer Science and Engineering, IIT - Guwahati, 2014-2018

RESEARCH AREAS

Distribution Testing.

Verification of Samplers.

SAT/SMT Solving.

PUBLICATIONS

Conference Proceedings

2023   "Efficiently Supporting Hierarchy and Data Updates in DNA Storage", *MICRO* (Paper).
          Puru Sharma, Cheng-Kai Lim, Dehui Lin, Yash Pote, and Djordje Jevdjic.

2022   "On Scalable Testing of Samplers", *NeurIPS* (Paper).
          Yash Pote and Kuldeep S. Meel

2022   "Managing Reliability Bias in DNA Storage", *ISCA* (Paper).
          Dehui Lin, Yasamin Tabatabaee, Yash Pote, Djordje Jevdjic

2021   "Testing Probabilistic Circuits", *NeurIPS* (Paper, Code).
          Yash Pote and Kuldeep S. Meel

2021   "Partition Function Estimation: A Quantitative Study", *IJCAI* (*Survey*).
          (Paper, Slides, Data)
          Durgesh Agrawal, Yash Pote, and Kuldeep S. Meel

2020   "On Testing of Samplers", *NeurIPS*. (Paper, Code).
          Kuldeep S. Meel, Yash Pote, and Sourav Chakraborty

2019   "Phase Transition Behavior of Cardinality and XOR Constraints", *IJCAI*.
          (Paper, Slides, Code).
          Yash Pote, Saurabh Joshi, and Kuldeep S. Meel

Manuscripts in Preparation

2023   "Distance Estimation of High Dimensional Samplers with Subcube Conditioning" (Paper).
          Gunjan Kumar, Kuldeep S. Meel, and Yash Pote.

2023   "Simpler and Faster Approximate Counting in the Low-Accuracy Regime"
Jiong Yang, Aaryan Gupta, Kuldeep S. Meel, and Yash Pote

TEACHING EXPERIENCE

National University of Singapore

CS 4244: Knowledge Representation and Reasoning (Teaching Assistant-Spring 2019, 20, 23)

CS 4269/CS 5469: Fundamentals of Logic in Computer Science (Teaching Assistant-Winter 2019)

CS 4218: Software Testing (Lab Tutor-Spring 2021)

PROFESSIONAL EXPERIENCE

2022   Amazon AWS, Applied Science Intern in the Automated Reasoning Group
Cupertino, California, USA;

2017   Goldman Sachs, Summer Intern in the Global Securities Team
Bangalore, India;

SERVICE

Reviewer

Conferences   NeurIPS(2021, 23), ICML(2021, 22, 23), CAV(2023), ICLR(2023)

RESEARCH VISITS

2021,2022 Visitor at the SAT program at the Simon's Institute for the Theory of Computing.

Updated September 2023