

# Yash Pote

Ph.D. Candidate  
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## 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;

## TECHNICAL SKILLS

Advanced              Python, SAT/PB/ILP Solvers

Intermediate        C, C++, MySQL, Z3, GNUPlot, Latex

## SERVICE

### Reviewer

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

## RESEARCH VISITS

2021,2022    Visitor at the [SAT](#) program at the [Simon’s Institute for the Theory of Computing](#).

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