

Yash Pote

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EMPLOYMENT

Postdoc School of Computing, National University of Singapore, 2025-
(Mentor: Jonathan Scarlett)

EDUCATION

Ph.D. School of Computing, National University of Singapore, 2019-25
(Advisor: Kuldeep S. Meel)

B.Tech. Computer Science and Engineering, IIT-Guwahati, 2014-18

RESEARCH INTEREST

I'm broadly interested in the theory and practice of probabilistic formal methods. I work on the development of techniques in distribution testing with a view towards faster verification tools for real-world distributions, such as samplers and generative models.

More generally, I am interested in the use of formal methods (like combinatorial solving) in machine learning.

PUBLICATIONS

Ⓐ indicates random author ordering

Distribution Testing

- 2025 Zero-Shot Attribution for Large Language Models: A Distribution Testing Approach,
Under Submission.
Clement L. Canonne, [Yash Pote](#), and Uddalok Sarkar
- 2025 [Learning Probabilistic Temporal Logic Specifications for Stochastic Systems, *IJCAI*](#).
(Code).
Rajarshi Roy, [Yash Pote](#), David Parker and Marta Kwiatkowska
Invited to the [Workshop on User-Aligned Assessment of Adaptive AI Systems](#)
- 2025 [Distance Estimation for High-Dimensional Discrete Distributions, *AISTATS*](#).
Gunjan Kumar Ⓐ Kuldeep S. Meel Ⓐ [Yash Pote](#).
- 2024 [Testing Self-Reducible Samplers, *AAAI*](#).
Rishiraj Bhattacharya, Sourav Chakraborty, [Yash Pote](#), Uddalok Sarkar, and Sayantan Sen.
- 2022 [On Scalable Testing of Samplers, *NeurIPS*](#) (Code).
[Yash Pote](#) Ⓐ Kuldeep S. Meel

- 2021 [Testing Probabilistic Circuits](#), *NeurIPS* (Code).
 [Yash Pote](#) (r) Kuldeep S. Meel
- 2020 [On Testing of Samplers](#), *NeurIPS*. (Code).
 Kuldeep S. Meel (r) [Yash Pote](#) (r) Sourav Chakraborty

Solving Combinatorial Problems

- 2025 [Towards Real-Time Approximate Counting](#), *AAAI*.
 [Yash Pote](#) (r) Kuldeep S. Meel, (r) Jiong Yang
 Selected for oral presentation (top 4.6% of submitted papers)
- 2021 [Partition Function Estimation: A Quantitative Study](#), *IJCAI (Survey)*.
 (Slides, Data)
 Durgesh Agrawal, [Yash Pote](#), and Kuldeep S. Meel
- 2019 [Phase Transition Behavior of Cardinality and XOR Constraints](#), *IJCAI*.
 (Slides, Code).
 [Yash Pote](#), Saurabh Joshi, and Kuldeep S. Meel

DNA Data Storage

- 2023 [Efficiently Supporting Hierarchy and Data Updates in DNA Storage](#), *MICRO*.
 Puru Sharma, Cheng-Kai Lim, Dehui Lin, [Yash Pote](#), and Djordje Jevdjic.
- 2022 [Managing Reliability Bias in DNA Storage](#), *ISCA*.
 Dehui Lin, Yasamin Tabatabaee, [Yash Pote](#), Djordje Jevdjic

TEACHING EXPERIENCE

National University of Singapore

- CS 4244 Knowledge Representation and Reasoning (2019, 20, 23)
 Teaching Assistant
- CS 5469 Fundamentals of Logic in Computer Science (2019)
 Teaching Assistant
- CS 4218 Software Testing (2021)
 Lab Tutor

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

Conference Reviewer

AISTATS 2024,25
CAV 2023
ICLR 2023
ICML 2021, 22, 23, 24
NeurIPS 2021, 23, 24, 25
PODS 2024

SELECTED INVITED TALKS

Towards Practical Distribution Testing ([Video](#))([Slides](#))

2024 A&C Seminar, University of Waterloo.

2024 Verification Seminar, Oxford University.

2024 [Workshop on Local Algorithms\(WOLA\)](#), Simons Institute, Berkeley

2023 SACT talk, University of Sydney.

EXTENDED RESEARCH VISIT

2024 WOLA at the [Sublinear Algorithms](#) program, [Simon's Institute for the Theory of Computing](#).

2024 Hosted by [Prof. Marta Z. Kwiatkowska](#) at the University of Oxford

2023 Hosted by [Clément L. Canonne](#) at the School of Computer Science at The University of Sydney.

2022 Participant at the [SAT](#) program at the [Simon's Institute for the Theory of Computing](#).

MISC.

2021 Cofounder of the Graduate Students Association of Computing (Coordinator from 2021-2023)

Updated May 2025