

Shuvom Sadhuka

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EDUCATION

Massachusetts Institute of Technology Cambridge, MA
PhD candidate in Computer Science 2027 (expected)
Research Interests: AI and Decision-making, Privacy, Applications to Biomedicine

Massachusetts Institute of Technology Cambridge, MA
SM in Computer Science September 2023
Concentration: AI

Harvard University Cambridge, MA
AB in Computer Science and Statistics May 2022
Extracurriculars: Harvard College Bhangra, Harvard Crimson, Harvard College Consulting Group, Harvard Sports Analytics Collective

PREPRINTS & PUBLICATIONS (* co-first)

[w] = working paper and/or under review, [p] = full publication

[w] S. Sadhuka, D. Prinster, C. Fannjiang, G. Scalia, A. Regev, H. Wang. *E-evaluator: Reliable Agent Verifiers with Sequential Hypothesis Testing*. Preprint ([arxiv](#))

[p] S. Balachandar, S. Sadhuka, B. Berger, E. Pierson, N. Garg. *Using GNNs to Model Biased Crowdsourced Data for Urban Applications*. AAAI 2026

[p] D. Shamugam*, S. Sadhuka*, M. Raghavan, J. Guttag, B. Berger, E. Pierson. *Evaluating multiple models using labeled and unlabeled data*. NeurIPS 2025

[p] S. Sadhuka, S. Lin, B. Berger**. E. Pierson**. *A Bayesian Model for Multi-stage Censoring*. ML4H 2025 (proceedings track), also **spotlight presentation at ML4H 2024** (findings track)

[p] H. Cho, D. Froelicher*, N. Dokmai*, A. Nandi*, S. Sadhuka*, M. Hong*, B. Berger. *Privacy-Enhancing Technologies in Biomedical Data Science*. Annual Reviews in Biomedical Data Science 2024

[p] S. Sadhuka, D. Fridman, B. Berger, H. Cho. *Assessing transcriptomic reidentification risks using discriminative sequence models*. Genome Research 2023; **oral presentation at RECOMB 2023**

[p] H. Pirie, S. Sadhuka, J. Wang, R. Andrei, J. Hoffman. *Topological phononic logic*. **Cover article in Physical Review Letters** 2022

- Press: [Science Daily](#), [Harvard SEAS](#), [IEEE Spectrum](#), [Hackaday](#)

[p] Q. Wang, D. Kelley, J. Ulirsch, M. Kanai, S. Sadhuka, R. Cui, C. Albors, N. Cheng, Y. Okada, Biobank Japan Project, F. Aguet, K. Ardlie, D. MacArthur, H. Finucane. *Leveraging supervised learning for functionally informed fine-mapping of cis-eQTLs identifies an additional 20,913 putative causal eQTLs*. *Nature Communications* 2021

SELECTED HONORS & AWARDS

MIT Envisioning the Future of Computing Essay, Honorable Mention	2023
National Science Foundation Graduate Research Fellowship	2022
Hertz Foundation Fellowship	2022

TEACHING EXPERIENCE

Massachusetts Institute of Technology	Cambridge, MA
TA, 18.418: <i>Topics in Computational Molecular Biology</i> (Prof. Bonnie Berger)	Fall 2023
Harvard University	Cambridge, MA
TF, CS 124: <i>Data Structures and Algorithms</i> (Prof. Michael Mitzenmacher)	Spring 2021, 2022
• Derek Bok Award for Distinction in Teaching	
TF, MCB 112: <i>Biological Data Analysis</i> (Prof. Sean Eddy)	Fall 2020
TF, Stat 110: <i>Introduction to Probability</i> (Prof. Joe Blitzstein)	Fall 2019

REVIEWING AND SERVICE

Roundtable Chair, ML4H 2024, 2025	2024, 2025
Member, NIST AI Safety Institute Task Force on Red Teaming	2024
Planning Committee, Hertz Foundation Summer Workshop	2023
Reviewing: NeurIPS, ICLR, ICLR MLGenX workshop, Journal of Computational Biology, PNAS	

LEADERSHIP & OUTREACH

Mentor Training Chair, MIT EECS Graduate Application Assistance Program.	2024-present
• Mentor, 2022-present	
Tutor, Research Science Institute	Summer 2023, 2024
Non-Resident Tutor, Mather House (Harvard University)	2022-2023
Co-captain, Harvard College Bhangra	2020-2022

MENTORSHIP

Ragulan Sivakumar (MEng student)	Fall 2024-Spring 2025
Sophia Lin (RSI summer student)	Summer 2024-Fall 2024

INDUSTRIAL EXPERIENCE

Genentech	San Francisco, CA
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ML Research Intern

2025

Worked on statistical methods for monitoring scientific LLM agents.

BBN Technologies

Cambridge, MA

Software Intern, Machine Translation Division

2020

REFERENCES

Bonnie Berger

Massachusetts Institute of Technology

Simons Professor of Mathematics and of Computer Science

bab@csail.mit.edu

Emma Pierson

University of California, Berkeley

Assistant Professor of Electrical Engineering and Computer Science

emma.pierson@berkeley.edu

Hyunghoon Cho

Yale University

Assistant Professor of Biomedical Informatics and Data Science

hhcho@broadinstitute.org