

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
Fellowships: Hertz Fellowship, NSF GRFP

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. Shanmugam*, [S. Sadhuka](#)*, M. Raghavan, J. Gutttag, 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. Albers, 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

TALKS & PRESENTATIONS

E-evaluator: Reliable Agent Verifiers with Sequential Hypothesis Testing	
Rational Intelligence Seminar Series [YouTube]	2026
MIT, Algorithms Coffee	2026
Evaluating multiple models using labeled and unlabeled data	
MIT, Machine Learning Tea	2025
Assessing transcriptomic reidentification risks	
RECOMB, Oral Presentation [YouTube]	2024

TEACHING EXPERIENCE

Massachusetts Institute of Technology	Cambridge, MA
<i>TA, 18.418: Topics in Computational Molecular Biology</i> (Prof. Bonnie Berger)	Fall 2023
Harvard University	Cambridge, MA
<i>TF, CS 124: Data Structures and Algorithms</i> (Prof. Michael Mitzenmacher)	Spring 2021, 2022
<i>TF, MCB 112: Biological Data Analysis</i> (Prof. Sean Eddy)	Fall 2020
<i>TF, Stat 110: 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, ICML, ICLR, Journal of Computational Biology, <i>PNAS</i>	

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)
Co-captain, Harvard College Bhangra

2022-2023
2020-2022

MENTORSHIP

Ragulan Sivakumar (MEng student)
Sophia Lin (RSI summer student)

Fall 2024-Spring 2025
Summer 2024-Fall 2024

INDUSTRIAL EXPERIENCE

Abridge

PhD Research Intern

Mentors: Alex Chouldechova, Michael Oberst

New York, NY

2026

Genentech

ML Research Intern

Mentors: Hanchen Wang, Aviv Regev

Worked on statistical methods for monitoring scientific LLM agents.

San Francisco, CA

2025

BBN Technologies

Software Intern, Machine Translation Division

Cambridge, MA

2020

REFERENCES

Bonnie Berger
Massachusetts Institute of Technology
Simons Professor of Mathematics and of Computer Science
bab@csail.mit.edu

Aviv Regev
Genentech
Executive Vice President of Research and Early Development
regev-letters-d@gene.com

Emma Pierson
University of California, Berkeley
Assistant Professor of Electrical Engineering and Computer Science
emma.pierson@berkeley.edu