

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 Bhanga, Harvard Crimson, Harvard College Consulting Group, Harvard Sports Analytics Collective

RESEARCH INTERESTS

Reliable and trustworthy machine learning, AI evaluation, uncertainty quantification, applications to biomedical domains

SELECTED HONORS & AWARDS

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

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 2026 ([arxiv](#))

[w] [S. Sadhuka](#), S. Dandapanthula, S. Khan, M. Oberst, B. Berger, A. Chouldechova. *Calibrated but Correlated: Shared Residuals among LLM Judges Distorts Model Selection*. In progress.

[p] S. Balachandar, [S. Sadhuka](#), B. Berger, E. Pierson, N. Garg. *Urban Incident Prediction with Graph Neural Networks: Integrating Government Ratings and Crowdsourced Reports*. 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. 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

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

TA, 18.418: *Topics in Computational Molecular Biology* (Prof. Bonnie Berger) Fall 2023

Harvard University

Cambridge, MA

TF, CS 124: *Data Structures and Algorithms* (Prof. Michael Mitzenmacher) Spring 2021, 2022

TF, MCB 112: *Biological Data Analysis* (Prof. Sean Eddy) Fall 2020

TF, Stat 110: *Introduction to Probability* (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)	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

Abridge AI	New York, NY
<i>PhD Research Intern</i>	2026
Mentors: Alex Chouldechova, Michael Oberst	

Genentech	San Francisco, CA
<i>ML Research Intern</i>	2025
Mentors: Hanchen Wang, Aviv Regev	

BBN Technologies	Cambridge, MA
<i>Software Intern, Machine Translation Division</i>	2020

REFERENCES

Bonnie Berger
Massachusetts Institute of Technology
Simons Professor of Mathematics and of Computer Science
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Hanchen Wang
Google DeepMind
Research Scientist
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Emma Pierson
University of California, Berkeley

Assistant Professor of Electrical Engineering and Computer Science
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