

# Shuvom Sadhuka

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## EDUCATION

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**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)

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[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](https://arxiv.org/abs/2309.08001))

[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](https://www.sciencedaily.com/article/395377777), [Harvard SEAS](https://seas.harvard.edu/news/2022/03/harvard-researchers-develop-new-topological-phononic-logic), [IEEE Spectrum](https://spectrum.ieee.org/this-week-in-physics-topological-phononic-logic), [Hackaday](https://www.hackaday.com/2022/03/07/harvard-researchers-develop-new-topological-phononic-logic/)

[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

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

## TEACHING EXPERIENCE

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<b>Massachusetts Institute of Technology</b>	Cambridge, MA
TA, 18.418: <i>Topics in Computational Molecular Biology</i> (Prof. Bonnie Berger)	Fall 2023
<b>Harvard University</b>	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

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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

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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

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

## INDUSTRIAL EXPERIENCE

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<b>Genentech</b>	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

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Bonnie Berger

Massachusetts Institute of Technology

Simons Professor of Mathematics and of Computer Science

[bab@csail.mit.edu](mailto:bab@csail.mit.edu)

Emma Pierson

University of California, Berkeley

Assistant Professor of Electrical Engineering and Computer Science

[emma.pierson@berkeley.edu](mailto:emma.pierson@berkeley.edu)

Aviv Regev

Genentech

Executive Vice President of Research and Early Development

[regev-letters-d@gene.com](mailto:regev-letters-d@gene.com)