

Education

- 2017–2023 UNIVERSITY OF TEXAS AT AUSTIN, Austin, TX
PhD in Computer Science. Advisor: Adam Klivans.
- 2013–2017 CORNELL UNIVERSITY, Ithaca, NY
BA in Mathematics, BA in Computer Science.
- Fall 2016 BUDAPEST SEMESTERS IN MATHEMATICS, Budapest, Hungary

Research interests

Computational and statistical learning theory, foundations of deep learning, and related topics

Publications

(Authors usually in alphabetical order)

- 2023 Aravind Gollakota, Parikshit Gopalan, Adam Klivans, and Konstantinos Stavropoulos. *Agnostically Learning Single-Index Models using Omnipredictors*. Submitted, 2023.
- 2023 Giannis Daras, Kulin Shah, Yuval Dagan, Aravind Gollakota, Alexandros Dimakis, and Adam Klivans. *Ambient Diffusion: Learning Clean Distributions from Corrupted Data*. Submitted, 2023.
- 2023 Aravind Gollakota, Adam Klivans, Konstantinos Stavropoulos, and Arsen Vasilyan. *Tester-Learners for Halfspaces: Universal Algorithms*. Submitted, 2023.
- 2023 Aravind Gollakota, Adam Klivans, Konstantinos Stavropoulos, and Arsen Vasilyan. *An Efficient Tester-Learner for Halfspaces*. Submitted, 2023.
- 2023 Aravind Gollakota, Adam Klivans, and Pravesh Kothari. *A Moment-Matching Approach to Testable Learning and a New Characterization of Rademacher Complexity*. Symposium on Theory of Computing (STOC) 2023.
- 2022 Sitan Chen, Aravind Gollakota, Adam Klivans and Raghu Meka. *Hardness of Noise-Free Learning for Two-Hidden-Layer Neural Networks*. Neural Information Processing Systems (NeurIPS) 2022 (Oral presentation).
- 2022 Aravind Gollakota and Daniel Liang. *On the Hardness of PAC-learning Stabilizer States with Noise*. Quantum 6, 2022.
- 2020 Aravind Gollakota, Sushrut Karmalkar, and Adam Klivans. *The Polynomial Method is Universal for Distribution-Free Correlational SQ Learning*. Technical note, 2020.
- 2020 Surbhi Goel, Aravind Gollakota, and Adam Klivans. *Statistical-Query Lower Bounds via Functional Gradients*. Neural Information Processing Systems (NeurIPS) 2020.
- 2020 Surbhi Goel, Aravind Gollakota, Zhihan Jin, Sushrut Karmalkar, and Adam Klivans. *Superpolynomial Lower Bounds for Learning One-Layer Neural Networks using Gradient Descent*. International Conference on Machine Learning (ICML) 2020.
- 2020 Aravind Gollakota, Will Hardt and István Miklós. *Packing Tree Degree Sequences*. Graphs and Combinatorics 36, 2020.

Work experience

- 2021 Susquehanna International Group (SIG), Bala Cynwyd, PA — Quantitative Strategy Intern
- Worked on the equity options trading desk
- 2019 Google, Cambridge, MA — Software Engineering Intern
- Worked on a confidential project within the Cloud division, writing low-level software in Rust
- 2017 Toyota Technological Institute at Chicago (TTIC), Chicago, IL — Research Intern
- Worked with Julia Chuzhoy and Madhur Tulsiani on approximation algorithms for graph problems
- 2016 Google, Mountain View, CA — Software Engineering Intern
- Worked on extending a new type system implementation for the Closure Compiler for JavaScript
- 2015 Google, San Francisco, CA — Software Engineering Intern
- Worked on a backend data migration project on a Cloud Platform team

Teaching

- 2020 TA, CS 391L Machine Learning (online master's course)
- 2019 TA, CS 311 Discrete Mathematics for Computer Science (undergraduate course)

Reviewing

ICML, NeurIPS (Outstanding Reviewer Award in 2021)

Honors

- 2017 Provost's Graduate Excellence Fellowship 2017–2021, UT Austin
- 2016 Putnam Mathematical Competition 2016: ranked in the top 350

Other

Nationality: Indian