

Aravind Reddy Talla

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EDUCATION & SCIENTIFIC TRAINING

Broad Institute of MIT and Harvard , Postdoctoral Associate Primary mentor: Victoria Popic	Cambridge, MA July 2023 -
Northwestern University , M.S., Ph.D. Ph.D. in Computer Science, Advisers: Konstantin Makarychev and Aravindan Vijayaraghavan M.S. in Computer Science, GPA: 4.0	Evanston, IL June 2023 March 2021
Adobe Research , Intern Primary mentor: Ritwik Sinha Primary mentors: Ryan Rossi and Zhao Song	San Jose, CA (remote) Summer 2022 Summer 2021
Indian Institute of Technology (IIT) Kanpur , B.Tech. Bachelor of Technology (B.Tech.) in Computer Science with minor in Physics, <i>Distinction</i>	May 2018
Paris Centre for Quantum Computing , Université Paris Diderot, Intern Mentors: Eleni Diamanti and Iordanis Kerenidis, partly funded by Charpak Scholarship	Paris, France Summer 2017
Centre for Quantum Technologies , National University of Singapore, Intern Mentor: Hartmut Klauck	Singapore Summer 2016

PUBLICATIONS

Dynamic Tensor Product Regression with Zhao Song and Lichen Zhang, link	<i>NeurIPS 2022</i>
Adaptive and Dynamic Multi-Resolution Hashing for Pairwise Summations with Lianke Qin, Zhao Song, Zhaozhuo Xu, and Danyang Zhuo, link	<i>BigData 2022</i>
One-Pass Algorithms for MAP Inference of Nonsymmetric Determinantal Point Processes with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, Eunye Koh, and Nesreen Ahmed, link	<i>ICML 2022</i>
Beyond Perturbation Stability: LP Recovery Guarantees for MAP Inference on Noisy Stable Instances with Hunter Lang, David Sontag, and Aravindan Vijayaraghavan, link	<i>AISTATS 2021</i>
Improved Guarantees for k-means++ and k-means++ Parallel with Konstantin Makarychev and Liren Shan, link	<i>NeurIPS 2020</i>

PATENT

Online Inference and Learning for Nonsymmetric Determinantal Point Processes with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, and Eunye Koh	2022 <i>Filed at USPTO</i>
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AWARDS & GRANTS

Adobe Research Gift Grant (\$20,000)	2022
Peter and Adrienne Barris Outstanding Teaching Assistant Award , Northwestern, press release	2022
Charpak Scholarship for Research Internship , Government of France	2017
National Initiative on Undergraduate Science Scholarship , HBCSE (TIFR)	2015
Gold Medallist , Indian National Physics Olympiad, <i>National top 35</i>	2014

SERVICE

Teaching Assistant: Mathematical Foundations of Computer Science (NU) - Spring 2022, Fall 2020, Fall 2019; Design & Analysis of Algorithms (NU) - Winter 2019; Fundamentals of Computing (IITK) - Winter 2018
Conference Reviewer: Total: 21 papers, NeurIPS (2022 (6 papers), 2021 (3 papers)), ICML (2023 (4 papers), 2022 (2 papers)), ICLR (2023 (2 papers), 2022 (1 paper)), AISTATS 2023 (3 papers)
Workshop Leader and Mentor: NeurIPS 2022 High-School Outreach Program
Conference Volunteer: STOC 2021, 2020, AISTATS 2021, NeurIPS 2020, FSTTCS 2017
Volunteer Math Tutor: For a Chicago area middle-school student, for the 2021-22 academic year.
Board Member: CS PhD Advisory Council (NU, 2020 - 2022) | **Webmaster:** Northwestern CS Theory (2018 - 2023)