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, <u>link</u>	NeurIPS 2022
Adaptive and Dynamic Multi-Resolution Hashing for Pairwise Summations with Lianke Qin, Zhao Song, Zhaozhuo Xu, and Danyang Zhuo, <u>link</u>	BigData 2022
One-Pass Algorithms for MAP Inference of Nonsymmetric Determinantal P with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, Eunyee Koh, and Nesreen Ahmed,	
Beyond Perturbation Stability: LP Recovery Guarantees for MAP Inference on No with Hunter Lang, David Sontag, and Aravindan Vijayaraghavan, <u>link</u>	oisy Stable Instances AISTATS 2021
Improved Guarantees for k-means++ and k-means++ Parallel with Konstantin Makarychev and Liren Shan, <u>link</u>	NeurIPS 2020
Patent	
Online Inference and Learning for Nonsymmetric Determinantal Point Proc with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, and Eunyee Koh	esses 2022 Filed at USPTO
Awards & Grants	
Adobe Research Gift Grant (\$20,000) Peter and Adrienne Barris Outstanding Teaching Assistant Award, Northwestern, pre Charpak Scholarship for Research Internship, Government of France National Initiative on Undergraduate Science Scholarship, HBCSE (TIFR) Gold Medallist, Indian National Physics Olympiad, National top 35	2022 ess release 2022 2017 2015 2014
SERVICE	
Teaching Assistant: Mathematical Foundations of Computer Science (NII) - Spring 2022 Fall	1 2020 Fall 2010:

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)