## Aravind Reddy Talla

aravind.reddy@cs.northwestern.edu | aravindreddy.org

## **EDUCATION**

Northwestern University Ph.D. in Computer Science, Advisors: Konstantin Makarychev, Aravindan Vijayaraghavan. M.S. in Computer Science, GPA: 4.0	Evanston, IL ne 2023 (Expected) March 2021
Indian Institute of Technology (IIT) Kanpur Bachelor of Technology (B.Tech.) in Computer Science with minor in Physics, Distinction	2018
Professional Experience	
Research Scientist Intern, Adobe Research  Primary mentor: Ritwik Sinha  Primary mentors: Ryan Rossi and Zhao Song, resulted in an ICML 2022 publication and patent filing	an Jose (remote) Summer 2022 g. Summer 2021
Research Intern, Paris Centre for Quantum Computing, <i>Université Paris Diderot</i> Mentors: Eleni Diamanti and Iordanis Kerenidis, partly funded by Charpak Scholarship	Summer 2017 Paris, France
<b>Research Intern,</b> Centre for Quantum Technologies, <i>National University of Singapore</i> Mentor: Hartmut Klauck	Summer 2016 Singapore
Publications	
Dynamic Tensor Product Regression with Zhao Song and Lichen Zhang  NeurIP	S 2022 (to appear)
One-Pass Algorithms for MAP Inference of Nonsymmetric Determinantal Point with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, Eunyee Koh, and Nesreen Ahmed, <u>link</u>	Processes  ICML 2022
Beyond Perturbation Stability: LP Recovery Guarantees for MAP Inference on Noisy S with Hunter Lang, David Sontag, and Aravindan Vijayaraghavan, $\underline{\text{arXiv}}$	table 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 Processes with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, and Eunyee Koh	s 2022 Filed at USPTO
Selected Awards & Grants	
Peter and Adrienne Barris Outstanding Teaching Assistant Award, Northwestern, press released Research Gift Grant (\$20,000) 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	ease 2022 2022 2017 2015 2014
Technical Skills	
Programming Languages: C, Python   Tools: LaTeX, Git, Gurobi Natural Languages: Native/Bilingual Proficiency - English, Telugu, Hindi; Limited Working Profic	iency - Korean

## 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: NeurIPS (2022, 2021), ICML 2022, ICLR (2023, 2022), AISTATS 2023 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: CS Theory group (NU, 2018 - Present)