Aravind Reddy Talla

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EDUCATION

Northwestern University — Evanston, IL
Ph.D. in Computer Science — June 2023 (Expected)
M.S. in Computer Science, GPA: 4.0 — 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 Assistant and Teaching Assistant, Northwestern University — Fall 2018 – Present
Advisors: Konstantin Makarychev and Aravindan Vijayaraghavan — *Evanston, IL*

Research Intern, Adobe Research — San Jose (remote)
Primary mentors: Ritwik Sinha and David Arbour — Summer 2022 (upcoming)
Primary mentors: Ryan Rossi and Zhao Song — Summer 2021

Research Intern, Paris Centre for Quantum Computing, *Université Paris Diderot* — Summer 2017
Mentors: Eleni Diamanti and Iordanis Kerenidis, partly funded by Charpak Scholarship — *Paris, France*

Research Intern, Centre for Quantum Technologies, *National University of Singapore* — Summer 2016
Mentor: Hartmut Klauck — *Singapore*

PUBLICATIONS

One-Pass Algorithms for MAP Inference of Nonsymmetric Determinantal Point Processes
with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, Eunyee Koh, and Nesreen Ahmed — *ICML 2022 (to appear)*

Beyond Perturbation Stability: LP Recovery Guarantees for MAP Inference on Noisy Stable Instances
with Hunter Lang, David Sontag, and Aravindan Vijayaraghavan, arXiv — *AISTATS 2021*

Improved Guarantees for k-means++ and k-means++ Parallel
with Konstantin Makarychev and Liren Shan, arXiv — *NeurIPS 2020*

PATENT

Online Inference and Learning for Nonsymmetric Determinantal Point Processes — 2022
with Ryan Rossi, Zhao Song, Anup Rao, Tung Mai, Nedim Lipka, Gang Wu, and Eunyee Koh — *Under review*

AWARDS & SCHOLASTIC ACHIEVEMENTS

Gift Grant ($20,000), Adobe Research — 2022
STOC 2019 Student Travel Grant, ACM SIGACT — 2019
Charpak Scholarship for research internship, French Government — 2017
Academic Excellence Award, IIT Kanpur — 2015
National Initiative on Undergraduate Science Scholarship, HBCSE (TIFR) — 2015
Gold Medallist, Indian National Physics Olympiad, *National top 35* — 2014

TECHNICAL SKILLS

Programming Languages: C, Python, Bash, Octave | **Web-Dev**: HTML, CSS, Hugo | **Tools**: LaTeX, Git, Gurobi |
Natural Languages: Native Proficiency - English, Telugu, Hindi, Elementary Proficiency - Korean

SERVICE

Reviewer: NeurIPS 2022, 2021, ICML 2022, ICLR 2022
Volunteer: STOC 2021, 2020, AISTATS 2021, NeurIPS 2020, FSTTCS 2017
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
Board Member: CS PhD Advisory Council (NU, 2020 - 2022) | **Webmaster**: CS Theory group (NU, 2018 - Present)
Coordinator: Card & Board Games Club (IITK), Science Coffeehouse (IITK) (2016 - 17)
Manager: English Literary Competitions, Antaragni 2015 (IITK)