Aravind Reddy Talla

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

EDUCATION

Northwestern University   Evanston, IL
Ph.D. in Computer Science   *June 2023 (Expected)*
Master of Science in Computer Science, GPA: 4.0   *March 2021*

Indian Institute of Technology (IIT) Kanpur
Bachelor of Technology in Computer Science, 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)