

Aravind Reddy Talla

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

EDUCATION

Northwestern University	Evanston, IL
Ph.D. in Computer Science, advised by Konstantin Makarychev and Aravindan Vijayaraghavan.	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, <i>Distinction</i>	2018

PROFESSIONAL EXPERIENCE

Research Scientist Intern , Adobe Research	San Jose (remote)
Primary mentor: Ritwik Sinha	Summer 2022
Primary mentors: Ryan Rossi and Zhao Song, resulted in an ICML 2022 publication and patent filing.	Summer 2021
Research Intern , Paris Centre for Quantum Computing, <i>Université Paris Diderot</i>	Summer 2017
Mentors: Eleni Diamanti and Iordanis Kerenidis, partly funded by Charpak Scholarship	<i>Paris, France</i>
Research Intern , Centre for Quantum Technologies, <i>National University of Singapore</i>	Summer 2016
Mentor: Hartmut Klauck	<i>Singapore</i>

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, 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, arXiv	<i>AISTATS 2021</i>
Improved Guarantees for k-means++ and k-means++ Parallel	
with Konstantin Makarychev and Liren Shan, arXiv	<i>NeurIPS 2020</i>

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 Eunye Koh	<i>Filed at USPTO</i>

AWARDS & SCHOLASTIC ACHIEVEMENTS

ICML 2022 Participation Grant (\$400)	2022
Peter and Adrienne Barris Outstanding Teaching Assistant Award (\$500) , Northwestern	2022
Adobe Research Gift Grant (\$20,000)	2022
STOC 2019 Student Travel Grant (\$600) , ACM SIGACT	2019
Charpak Scholarship for Research Internship , Government of France	2017
Academic Excellence Award , IIT Kanpur	2015
National Initiative on Undergraduate Science Scholarship , HBCSE (TIFR)	2015
Gold Medallist , Indian National Physics Olympiad, <i>National top 35</i>	2014

TECHNICAL SKILLS

Programming Languages: C, Python Tools: \LaTeX , Git, Gurobi
Natural Languages: Native/Bilingual Proficiency - English, Telugu, Hindi; Limited Working Proficiency - 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 2022
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)