

Aravind Reddy Talla

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EDUCATION

Northwestern University <i>Ph.D. in Computer Science</i> , Grade Point Average: 3.96/4.00	Evanston, IL 2023 (<i>Expected</i>)
Indian Institute of Technology (IIT) Kanpur <i>Bachelor of Technology in Computer Science, Minor in Physics</i> , Distinction	2018

PUBLICATIONS

Beyond Perturbation Stability: LP Recovery Guarantees for MAP Inference on Noisy Stable Instances with Hunter Lang, David Sontag, and Aravindan Vijayaraghavan	AISTATS 2021 (to appear)
Improved Guarantees for k-means++ and k-means++ Parallel with Konstantin Makarychev and Liren Shan, arXiv	NeurIPS 2020

RESEARCH EXPERIENCE

Northwestern University Advisors: Prof. Konstantin Makarychev and Prof. Aravindan Vijayaraghavan	Fall 2018 – Present <i>Evanston, IL</i>
Paris Centre for Quantum Computing , <i>Université Paris Diderot</i> Mentors: Prof. Eleni Diamanti and Prof. Iordanis Kerenidis, partly funded by Charpak Scholarship	Summer 2017 <i>Paris, France</i>
Centre for Quantum Technologies , <i>National University of Singapore</i> Mentor: Prof. Hartmut Klauck	Summer 2016 <i>Singapore</i>

TEACHING ASSISTANT EXPERIENCE

CS 212: Mathematical Foundations of Computer Science , Northwestern University	Fall 2020, Fall 2019
CS 336: Design & Analysis of Algorithms , Northwestern University	Winter 2019
ESC 101: Fundamentals of Computing , IIT Kanpur	Winter 2018

AWARDS & SCHOLASTIC ACHIEVEMENTS

STOC 2019 Student Travel Grant , ACM SIGACT	2019
Charpak Scholarship for research internship , French Government	2017
National Initiative on Undergraduate Science Scholarship , HBCSE (TIFR)	2015
Academic Excellence Award , IIT Kanpur	2015
Gold Medallist , Indian National Physics Olympiad, <i>National top 35</i>	2014

SELECTED COURSEWORK

Machine Learning: Algorithmic Aspects of Inference, Computational Learning Theory, Machine Learning
Theoretical CS: Algorithmic Mechanism Design, Approximation Algorithms, Computational Complexity, Cryptography, Expander Graphs, Lattices in Computer Science, Quantum Computing, Quantum Cryptography
Math: Probability Theory & Stochastic Analysis, Spectral Graph Theory

TECHNICAL SKILLS

Languages: C, Python, Bash, Octave | **Web-Dev:** HTML, CSS, Hugo | **Tools:** Git, Gurobi, L^AT_EX, GNU Plot, Vim

SERVICE

Volunteer: NeurIPS 2020, STOC 2020, and FSTTCS 2017 | **Board Member:** Northwestern CS PhD Advisory Council
Webmaster: Northwestern CS Theory group | **Coordinator:** Card & Board Games Club, IIT Kanpur (2016 - 17)