

# Aravind Reddy Talla

## Curriculum Vitae

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### Education

- 2023 **Northwestern University**, *Evanston, Illinois*,  
(Expected) Ph.D, Computer Science.
- 2018 **Indian Institute of Technology (IIT) Kanpur**,  
B.Tech, Computer Science & Engineering (minor in Physics), Distinction.

### Publications

- NeurIPS 2020 **Improved Guarantees for k-means++ and k-means++ Parallel**,  
(to appear) with Konstantin Makarychev and Liren Shan.

### Research Experience

- Fall 2018 - **Northwestern University**.  
Advisors: *Prof. Konstantin Makarychev and Prof. Aravindan Vijayaraghavan*
- Summer 2017 **Paris Centre for Quantum Computing**, *Université Paris Diderot*.  
Mentors: *Prof. Eleni Diamanti and Prof. Jordanis Kerenidis* Partly funded by Charnpak
- Fall 2016 **Indian Institute of Technology Kanpur**.  
Advisor: *Prof. Rajat Mittal*
- Summer 2016 **Centre for Quantum Technologies**, *National University of Singapore*.  
Mentor: *Prof. Hartmut Klauck*
- Summer 2015 **Indian Institute of Science Education and Research**, *Kolkata*.  
Mentor: *Prof. Prasanta K. Panigrahi* Funded by the NIUS Scholarship

### Teaching Experience

- Fall 2020, **Teaching Assistant**, *CS 212 (Mathematical Foundations of Computer Science)*,  
Fall 2019 Northwestern University.
- Winter 2019 **Teaching Assistant**, *CS 336 (Algorithms)*, Northwestern University.
- Winter 2018 **Tutor**, *ESC101: Fundamentals of Computing*, IIT Kanpur.

### Awards & Scholastic Achievements

- 2017 **Charnpak Scholarship for research internship**, *French Government*.
- 2015 **National Initiative on Undergraduate Science Scholarship**, *HBCSE (TIFR)*.
- 2015 **Academic Excellence Award**, *IIT Kanpur*.
- 2014 **Gold Medallist**, *Indian National Physics Olympiad*, National top 35.

## Selected Coursework:

Approximation Algorithms, Computational Complexity, Computational Learning Theory, Cryptography, Expander Graphs, Lattices in Computer Science, Machine Learning, Mechanism Design, Probability Theory & Stochastic Analysis, Quantum Computing, Quantum Cryptography, Spectral Graph Theory

## Service and Activities

**Volunteer**, *STOC 2020 and FSTTCS 2017*.

2020- **Board Member**, *Computer Science PhD Advisory Council*, Northwestern.

2018- **Webmaster**, *Northwestern CS Theory group*.

2016-17 **Coordinator**, *Science CoffeeHouse*, IIT Kanpur.

2016-17 **Coordinator**, *Association for Computing Activities*, IIT Kanpur.

2016-17 **Coordinator**, *Card & Board Games Club*, IIT Kanpur.