

Ashwin Padaki

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EDUCATION

University of Pennsylvania

Ph.D in Computer and Information Science

Philadelphia, PA

2024 – 2029 (*expected*)

Advised by Sanjeev Khanna and Erik Waingarten.

Graduate Coursework: Algorithms for Massive Data, Randomized Algorithms, Machine Learning Theory

Columbia University

B.A. in Computer Science, Mathematics

New York, NY

2020 – 2024

GPA: 4.06/4

Selected CS Coursework: Advanced Algorithms, Computational Complexity, Computational Learning Theory, Convex Optimization, Cryptography, Differential Privacy, Quantum Computing

Selected Math Coursework: Algebraic Geometry, Algebraic Number Theory, Analysis, Probability Theory

PUBLICATIONS

(authors ordered alphabetically by last name)

1. Karthik C. S., Henry Fleischmann, Kyrylo Karlov, **Ashwin Padaki**, Styopa Zharkov. [Inapproximability of Maximum Diameter Clustering for Few Clusters](#). *Proceedings of the 2025 Annual ACM-SIAM Symposium on Discrete Algorithms (SODA)*. 2025
2. Josh Alman, Yunfeng Guan, **Ashwin Padaki**. [Smaller Low-Depth Circuits for Kronecker Powers](#). *Proceedings of the 2023 Annual ACM-SIAM Symposium on Discrete Algorithms (SODA)*. 2023

TALKS

1. Inapproximability of Maximum Diameter Clustering for Few Clusters, SODA 2025

SELECTED WORK EXPERIENCE

Teaching Assistant

Columbia University

Sep 2022 – Dec 2023

New York, NY

- Cryptography (Fall 2023), Computational Complexity (Spring 2023), Real Analysis (Fall 2022).

Quantitative Trader Intern

Optiver

Jun 2022 – Aug 2022

Chicago, IL

- Developed, backtested, and implemented high-frequency trading strategies for stock options.

SERVICE

Mentor

Columbia Undergraduate Learning Seminar in Theoretical Computer Science

Sep 2023 – Dec 2023

New York, NY

- Organized and taught a seminar on Boolean function analysis for undergraduate students.

ACHIEVEMENTS

National Science Foundation (NSF) Graduate Research Fellow

2024

Phi Beta Kappa Inductee

2024

Putnam Mathematical Competition, Top 500 Scorer

2022