Anakin Dey

Curriculum Vitæ

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Research Interests

Algebraic Combinatorics, Algebraic Complexity, Computational Algebra, Algebraic Geometry, Commutative Algebra

Education

Fall 2024 — Spring 2030
PhD Mathematics, *The Ohio State University*

Fall 2020 — Spring 2024
BSLAS Mathematics, *University of Illinois Urbana-Champaign*
Minor in Computer Science
Graduation with Highest Distinction

Publications

2024 **Classifying Primitive Solvable Permutation Groups of Rank 5 and 6**
Anakin Dey, Kolton O'Neal, Duc Van Khanh Tran, Camron Upshur, and Yong Yang
Journal of Group Theory, Degruyter

2022 **Post-Disaster Repair Crew Assignment Optimization Using Minimum Latency**
Anakin Dey and Melkior Ornik
IEEE International Smart Cities Conference 2022, IEEE

Invited Talks

2024 **Classifying Primitive Groups using Computer Algebra and Change Making**
China-US Group Theory Summit 2024

2023 **Classifying Primitive Groups using Computer Algebra and Change Making**
UIUC Department of Mathematics Undergraduate Friday Seminars

2023 **Classifying Primitive Solvable Permutation Groups of Rank 5 and 6**
China Three Gorges University Algebra and Combinatorics Seminar

2022 **Post-Disaster Repair Crew Assignment Optimization Using Minimum Latency**
IEEE International Smart Cities Conference 2022

Research Experience

Spring 2024 **Undergraduate Research Assistant**, *ICLUE*
Under Prof. Alexander Yong, University of Illinois Urbana-Champaign

Summer 2023 **Undergraduate Research Assistant**, *REU in Algebra, Combinatorics, and Statistics*
Under Prof. Yong Yang, Texas State University

Fall 2021 — **Undergraduate Research Assistant**, *LEADCAT Lab*
Fall 2023 Under Prof. Melkior Ornik, University of Illinois Urbana-Champaign

Student Organizations

Spring 2025 – **Vice President**, *OSU MGSA*
Current Ohio State University Math Graduate Student Association

Fall 2022 – **Founder and President**, *ACM SIGma*
Spring 2024 Special Interest Group in Math and Algorithms

Fall 2021 – **Admin**, *ACM SIGPwny*
Spring 2024 Special Interest Group in Cybersecurity

Teaching Experience

Spring 2021 – **Undergraduate Course Assistant**, University of Illinois Urbana-Champaign
Spring 2024 ○ CS 225H — Honors Data Structures

Spring 2024	Course Assistant

  ○ CS 374 — Introduction to Algorithms and Models of Computation

Spring 2022 — Fall 2022	Course Assistant
Fall 2023	Course Assistant

  ○ CS 173 — Discrete Structures

Spring 2021 — Spring 2022	Course Assistant
Fall 2022 — Spring 2024	Head Course Assistant

  ○ CS 475 — Models of Computation

Spring 2023	Course Assistant

  ○ CS 125 — Introduction to Computer Science

Spring 2021	Course Assistant

Professional Experience

Summer 2022 **Software Engineering Intern**, *CME Group*

Summer 2021 **Software Engineering Intern**, *SiteIQ*