

# Anakin Dey

## Curriculum Vitæ

(331) 431 1220  
✉ [dey.92@buckeyemail.osu.edu](mailto:dey.92@buckeyemail.osu.edu)  
🌐 [www.anakin.phd](http://www.anakin.phd)

### Research Interests

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

### Education

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

Fall 2020 — **BSLAS Mathematics**, *University of Illinois Urbana-Champaign*  
Spring 2024 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

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## 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

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## 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

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## Teaching Experience

- Fall 2025 –*   **Graduate Teaching Assistant**, The Ohio State University  
*Current*   ○ Math 1151 — Calculus I  
                  (*Fall 2025*)
- Spring 2021 –*   **Undergraduate Course Assistant**, University of Illinois Urbana-Champaign
- Spring 2024*   ○ CS 225H — Honors Data Structures  
                  (*Spring 2024*)
- CS 374 — Introduction to Algorithms and Models of Computation  
                  (*Spring 2022 — Fall 2022, Fall 2023*)
- CS 173 — Discrete Structures  
                  (*Spring 2021 — Spring 2024*)
- CS 475 — Models of Computation  
                  (*Spring 2023*)
- CS 125 — Introduction to Computer Science  
                  (*Spring 2021*)

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## Professional Experience

- Summer 2022*   **Software Engineering Intern**, *CME Group*
- Summer 2021*   **Software Engineering Intern**, *SitelQ*