

Zachary Porat | Curriculum Vitae

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📍 Wesleyan University, Department of Mathematics and Computer Science, Middletown, CT

Education

Wesleyan University | MIDDLETOWN, CT 2020 – Present
Ph.D. Candidate in Mathematics Expected 2026
Advisor: David Pollack

Union College | SCHENECTADY, NY 2016 – 2020
Bachelor of Science in Mathematics with Honors, *summa cum laude*
Honors Thesis: [Classification of Torsion Subgroups for Mordell Curves](#)
Physics Minor, Phi Beta Kappa, Scholars Program

Teaching Experience

Instructor of Record | WESLEYAN UNIVERSITY Fall 2022 – Present
• Elementary Statistics (Fall 2022)

Teaching Assistant | WESLEYAN UNIVERSITY Fall 2021 – Present
• Advanced Topics in Abstract Algebra (Spring 2024)
• Introduction to Abstract Algebra (Fall 2023)
• Introduction to Real Analysis (Spring 2022, Spring 2023)
• Discrete Mathematics (Fall 2021)



Directed Reading Program Mentor | WESLEYAN UNIVERSITY Spring 2023 – Present
• William Dollhopf, Mathematical Cryptography (Fall 2023)
• Emily Bennett, Mathematical Cryptography (Spring 2023)
• Stefan Hesselting, Mathematical Cryptography (Spring 2023)

Math Workshop Tutor | WESLEYAN UNIVERSITY Fall 2020 – Spring 2021
• Covers the entire selection of undergraduate math courses at Wesleyan






Course Assistant | UNION COLLEGE Fall 2017 – Winter 2020
• Linear Algebra (Winter 2020)
• Calculus I (Fall 2017, Fall 2018, Fall 2019)
• Calculus II (Winter 2018, Winter 2019)
• Multivariable Calculus with Linear Algebra (Spring 2018)

Calculus Help Center Tutor | UNION COLLEGE Fall 2019 – Winter 2020
• Covers Calculus I, Calculus II, and Multivariable Calculus with Linear Algebra




Publications

- [2] **Family Sizes for Complete Multipartite Graphs** (with Danielle Gregg, Thomas Mattman, and George Todd), *Involve, a Journal of Mathematics*, Vol. 15, No. 4 (2022), 669-686.
 [MR4536581](https://doi.org/10.2140/involve.2022.15.669), DOI: [10.2140/involve.2022.15.669](https://doi.org/10.2140/involve.2022.15.669)
- [1] **PIXE Analysis of Synthetic Turf** (with Sajju Chalise, Morgan Clark, Skye Conlan, Scott LaBrake, and Michael Vineyard), *Environment and Ecology Research*, Vol. 6, No. 1 (2018), 60-65.
 DOI: [10.13189/eer.2018.060105](https://doi.org/10.13189/eer.2018.060105)




Talks

- “How Computers are Shaping Math” November 15, 2023
 Manhattan College Math Seminar
- “Death at 20: The Story of Évariste Galois” March 9, 2023
 Graduate Student Seminar, Wesleyan University
- “The Search for Large Prime Numbers” January 12, 2023
 Union College Math Seminar
- “An Introduction to Cryptography” February 10, 2022
 Graduate Student Seminar, Wesleyan University
- “An Introduction to Elliptic Curves” October 14, 2021
 Graduate Student Seminar, Wesleyan University

Workshops

- Arizona Winter School: Abelian Varieties March 2-6, 2024
 University of Arizona
- Connecticut Summer School in Number Theory June 6-12, 2022
 University of Connecticut
- Connecticut Summer School in Number Theory June 8-14, 2020
 Online due to COVID-19

Service

- Co-organizer of the Directed Reading Program  Spring 2023 – Present
- President of the Wesleyan AMS Graduate Student Chapter  Fall 2023 – Present
- Creator and editor of the departmental graduate student website Fall 2021 – Present
- Co-organizer of the departmental Graduate Student Seminar  Spring 2022 – Fall 2023
- Vice President of the Wesleyan AMS Graduate Student Chapter Fall 2021 – Spring 2023

Honors and Awards

- Martin Terry Resch Prize [🔗](#) May 2020
- Phi Beta Kappa Membership May 2020
- Pi Mu Epsilon Membership April 2019

References

- David Pollack, dpollack@wesleyan.edu