

## Andrew Lott

University of Georgia Department of Mathematics

## Contact Information

andrew.lott@uga.edu

### Education

University of Georgia

Ph.D., Mathematics (in progress)

Advisors: Ákos Magyar and Giorgis Petridis

Millsaps College

B.S., Mathematics, summa cum laude (2023)

### Research Projects

- 1) *Polynomial Configurations in the Prime Lattice* with Ákos Magyar, Giorgis Petridis, János Pintz
- 2) *Polynomial Progressions in Generalized Twin Primes* with Nagendar Reddy Ponagandla

### Publications

- 1) *The Sum-Product Problem for Small Sets* (with Ginny Ray Clevenger, Haley Havard, Patch Heard, Alex Rice, and Brittany Wilson), *Involve* (to appear).
- 2) *Computations and Observations on Congruence Covering Systems* (with Raj Agrawal, Prarthana Bhatia, Kratik Gupta, Powers Lamb, Alex Rice, and Christine Rose Ward), *Proc. INTEGERS* 2023.
- 3) *Schur's Theorem in Integer Lattices* (with Vishal Balaji and Alex Rice), *INTEGERS* vol. 22 (2022), A62.
- 4) *The Pigeonhole Principle and Multicolor Ramsey Numbers* (with Vishal Balaji, Powers Lamb, Dhruv Patel, Alex Rice, Sakshi Singh, and Christine Rose Ward), *Involve* vol. 15 (2022).

### Workshops Attended

*Algebraic and Analytic Methods in Combinatorics*, MSRI/SLMath

March 2025

Funded participant.

### Mentorship and Outreach

Directed Reading Program Mentor, University of Georgia

Spring 2025

Guided undergraduate Jose Lopez-Gervacio through the proof of Roth's Theorem using Fourier-analytic techniques.

Athens Math Circle Volunteer, University of Georgia

January 2025–Present

Presented on Ramsey theory and assist monthly with outreach sessions for local middle school students.

## Employment History

Graduate Teaching Assistant, University of Georgia	Aug 2023 – Present
Assistant, Kinnaird Summer Research Institute, Millsaps College	Summers 2023, 2024
Undergraduate Teaching Assistant, Millsaps College	Aug 2022 – May 2023
Undergraduate Researcher, Kinnaird Summer Research Institute	Summers 2021, 2022
Assistant MATHCOUNTS Coach, Jackson Preparatory School	Jan 2022 – Feb 2023

## Courses Taught

Precalculus, University of Georgia	Fall 2024
Calculus I, University of Georgia	Spring 2025

## Teaching Assistant Experience

Calculus I, Millsaps College	Fall 2022
Calculus II, Millsaps College	Spring 2023
Sequences and Series, University of Georgia	Fall 2023
Graph Theory, University of Georgia	Spring 2024
Honors Multivariable Calculus, University of Georgia	Fall 2024

## Awards

- Samuel R. Knox Senior Mathematics Award, Millsaps College (2023)
- Best Overall Thesis and Presentation, Millsaps Honors Program (2023)
- First Place Presentations, LA/MS MAA Meetings (2022, 2023)
- Eagle Scout, Boy Scouts of America (2016)