

Education

- **University of Georgia:** Ph.D., Mathematics, in progress  
Advisors: Ákos Magyar and Giorgis Petridis
- **Millsaps College** B.S., Mathematics, 2023, summa cum laude, with Honors  
Honors Advisor: Alex Rice  
Honors Thesis: *New and Old Results in Ramsey Theory and Additive Combinatorics*

Employment History

Graduate Teaching Assistant, University of Georgia . . . . . August 2023 - Present

Assistant, Kinnaird Summer Research Institute, Millsaps College . . . Summer 2023, Summer 2024

Undergraduate Teaching Assistant, Millsaps College . . . . . August 2022 - May 2023

Undergraduate Researcher, Kinnaird Summer Research Institute, Millsaps College Summer 2021, 2022

Assistant MATHCOUNTS Coach, Jackson Preparatory School . . . . January 2022 - February 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

## Qualifying Exams Passed

Real Analysis, University of Georgia . . . . .	Spring 2024
Algebra, University of Georgia . . . . .	Spring 2024
Complex Analysis, University of Georgia . . . . .	Fall 2024
Algebraic Topology, University of Georgia . . . . .	Fall 2024

## Publications

- 1) *The sum product problem for small sets* (with Ginny Ray Clevenger, Haley Havard, Patch Heard, Alex Rice, and Brittany Wilson), *Involve*.
- 2) *Computations and observations on congruence covering systems* (with Raj Agrawal, Prarthana Bhatia, Kratik Gupta, Powers Lamb, Alex Rice, and Christine Rose Ward), *Proceeding of INTEGERS* 2023.
- 3) *Schur's theorem in integer lattices* (with Vishal Balaji and Alex Rice), *INTEGERS* vol. 22 (2022), Paper 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), no. 5, 857-884.

## Conference Presentations

- *The sum-product problem for small sets*
  - Graduate Student Seminar, Millsaps College, March 2024
- *Schur's Theorem in integer lattices*
  - INTEGERS, University of Georgia, May 2023
  - AMS Spring Southeastern Sectional Meeting, Georgia Tech, March 2023
  - Louisiana/Mississippi MAA Sectional Meeting, Northwestern State University, March 2022
- *Computations and observations on congruence covering systems*
  - Louisiana/Mississippi MAA Sectional Meeting, University of Mississippi, March 2023
  - $\beta\beta\beta$  Research Symposium, Millsaps College, April 2023
- *New and old results in Ramsey theory and additive combinatorics*
  - Honors Conference, Millsaps College, February 2023

## Awards

- **Samuel R. Knox Senior Mathematics Award** (Millsaps College, outstanding senior in mathematics) Spring 2023
- **Best Overall Thesis and Presentation:** (Millsaps College, Honors Program) Spring 2023
- **First Place Oral Presentation** (Millsaps College  $\beta\beta\beta$  Undergraduate Research Symposium) Spring 2023
- **First Place Student Presentation** (Louisiana/Mississippi MAA Sectional Meeting) Spring 2023
- **First Place Student Presentation** (Louisiana/Mississippi MAA Sectional Meeting) Spring 2022
- **First Place Team Competition** (Louisiana/Mississippi MAA Sectional Meeting) Spring 2022
- **Eagle Scout** (Boy Scouts of America) Fall 2016