

Millsaps Website Bio Submission Form

Name & Designations

Dr. Alex Rice

Title

Professor of Mathematics

Title 2 (if applicable)

Honors Program Director

Title 3 (if applicable)

Millsaps Email Address

riceaj@millsaps.edu

Work Phone Number

(601) 974-1371

Department

Mathematics

Educational Background

Ph.D., Mathematics, University of Georgia, 2012

Areas of Expertise (required for faculty, optional for staff)

number theory, combinatorics, analysis

Introduction/Short Bio (Maximum 200 words)

I grew up in the Atlanta area, and did both my undergraduate and graduate work at the University of Georgia in Athens. Go Dawgs! I arrived at Millsaps in Fall 2017 after visiting positions at Bucknell University in Pennsylvania and the University of Rochester in New York. Millsaps has proven to be the perfect permanent home for me where I can balance teaching courses at all levels, conducting my own research, doing research with students, and serving the campus and community in rewarding ways like directing the Honors Program and hosting an annual math competition for local high school students. In my spare time, I enjoy basketball, tennis, playing guitar, trivia, going to sporting events, movies, and comedy shows, and spending time with my partner Sabrina and my beloved cat Cauchy. Cauchy is named after a famous French mathematician, and she has been with me on my entire journey since undergrad!

Credentials, Accreditations & Awards

Recent Awards:

1. AMS-Simons Research Grant for PUI Faculty: 2023-26
2. Halmos-Ford Award for expository writing, MAA MathFest 2023
3. Richard A. Smith Award (Scholarship/Creative Work): 2021-22 (Millsaps)
4. Janet R. Langley Award (Academic Advising): 2021-22 (Millsaps)

Teaching Focuses

Recent Books or Publications

Selected papers:

1. Multivariate polynomial values in difference sets (with John R. Doyle), *Discrete Analysis*, 2021:11, 46pp.
2. A maximal extension of the best-known bounds for the Sárközy-Furstenberg theorem, *Acta Arithmetica* 187 (2019), 1-41.

I have also published six papers with a total of 19 Millsaps undergraduate co-authors between 2020 and 2023 through the Kinnaird summer research program!

Fun Fact (optional)

The first person my own age to ever dunk on me was Dwight Howard, when we were both 12.

Curriculum Vitae (Optional)

Please attach your CV as a PDF to a separate email. Label it according to the following format: lastname-firstname.pdf and send to stacey.gaines@millsaps.edu