ALEXANDRA BONAT

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January 2024

EDUCATION

University of Wisconsin-Madison   *Madison, WI*
Mathematics Ph.D   *2023-present*
Williams College   *Williamstown, MA*
B.S. Mathematics   *2019-2023*
Cum Laude

RESEARCH EXPERIENCE

Senior Honors Thesis in Mathematics   *Williams College*
Commutative Algebra   *Fall 2022 - Spring 2023*
Advisor: Susan Loepp

NSF Research Experience for Undergraduates   *Williams College SMALL*
Knot Theory Group   *Summer 2022*
Advisor: Colin Adams

TEACHING EXPERIENCE

Math 234: Calculus III   *University of Wisconsin*
Teaching Assistant   *Fall 2024*

Math 240: Discrete Math   *University of Wisconsin*
Teaching Assistant   *Spring 2024, Summer 2024*

Math 222: Calculus II   *University of Wisconsin*
Teaching Assistant   *Fall 2023*

Math 413: Computational Algebraic Geometry   *Williams College*
Teaching Assistant   *Spring 2023*

Math 355: Abstract Algebra   *Williams College*
Teaching Assistant   *Spring 2022 - Fall 2022*

PAPERS

"Hyperbolic Knotoids" (with C. Adams, M. Jiang, Z. Romrell, D. Santiago, B. Shapiro, D. Woodruff) European Journal of Mathematics 10, 43 (2024).

"Generalized Knotoids" (with C. Adams, M. Jiang, Z. Romrell, D. Santiago, B. Shapiro, D. Woodruff) Mathematical Proceedings of the Cambridge Philosophical Society, *To appear*

"Noncatenary Noetherian Unique Factorization Domains" (with S. Loepp) Rocky Mountain Journal of Mathematics, *To appear*

TALKS

Infinitely Noncatenary Unique Factorization Domains   *Williams College*
Mathematics Colloquium   *May 2023*

ORGANIZATIONS AND OUTREACH

Student Math/Stat Advisory Board   *Williams College*
Mentor   *Fall 2022, Spring 2023*

Association of Women in Mathematics   *Williams College*
Organizer   *Fall 2022, Spring 2023*