

Noah Speeter

CONTACT INFORMATION

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RESEARCH INTERESTS

I am primarily interested in graph theory and chip firing. In particular, I am interested in computing the gonality of various families of graphs. I am also interested in other discrete topics such as Mahonian statistics.

EDUCATION

University of Kentucky (UK), Lexington, KY, USA

PhD, Mathematics, Expected graduation May 2023

- Advisor: Dave Jensen

Masters, Mathematics, attained May 2019

- Advisor: Ben Braun

Saint John's University, Collegeville, MN, USA

BA, Mathematics (with secondary education endorsement), Graduated December 2016

RESEARCH ARTICLES

1. *A New Lower Bound on Graph Gonality* (with M. Harp, E. Jackson, and D. Jensen), submitted: [arXiv:2006.01020](https://arxiv.org/abs/2006.01020).
Published in Discrete Applied Mathematics.
2. *The Gonality of Rook Graphs*, submitted: [arXiv:2203.16619](https://arxiv.org/abs/2203.16619)
3. *The Gonality of Queen Graphs* (with Ralph Morrison), In Preparation

AWARDS

1. Carl Lee Excellence in Teaching award, 2022
2. University of Kentucky Math department Diversity, Equity, and Inclusion Award, 2022

WORK GROUPS

1. [DART Summer session](#) (founder/organizer)
2. [University of Kentucky Working Group on Ethics, Equity, Inclusion, and Justice in the Mathematical Sciences](#)

TEACHING EXPERIENCE

Primary Instructor, *Department of Mathematics, UK*

Responsibilities as the *Primary Instructor*: sole preparation and presentation of lectures, holding office hours, writing exams and evaluating student work.

- MA 201 (Math for Elementary Ed) - Fall '21
- MA 109 (college algebra) - Fall '20 and Spring '21
- MA 113 (Calc 1) - Summer '20
- MA 110 (Pre-calc) - Summer '19

Teaching Assistant, *Department of Mathematics, UK*

Responsibilities as *TA*: Leading class Recitations, holding office hours, writing and grading weekly quizzes.

- MA 123 (Calc for Business Majors) - Fall '19, Fall '22
- MA 113 (Calc 1) Spring '20
- MA 110 (college algebra) - Fall '17, Spring '18, Spring '19
- MA 114 (Calc 2) - Fall '18

Student Teacher, *Robbinsdale Middle School*, Fall 2016

Responsibilities as student teacher: Act as the lead teacher in four different 8th grade classes, write lesson plans and class activities, grade homework and exams, attend team meetings on curriculum and exam prep.

Teaching Assistant, *Department of Mathematics, Saint John's University*

Responsibilities as *TA*: Leading class labs, holding office hours, grading weekly homework.

- Calc 1 - Spring '15, Fall '15
- Calc 2 - Fall '14, Spring '16,

TALKS GIVEN

1. January 2023 JMM AMS Contributed Paper Session on Combinatorics III
2. September 2022 Faculty Seminar, Williams College
3. September 2022 Algebra Seminar, University of Kentucky
4. April 2021 - Virtual Seminar, University of Kentucky
5. October 2020 - Discrete CATS Seminar, University of Kentucky
6. April 2019 - Student Combinatorics and Algebra Seminar, University of Minnesota
7. March 2019 - Masters Talk, University of Kentucky