JAMES MCKEOWN

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EDUCATION

Ph.D. August 2012 - Present

Mathematics. University of Miami. Coral Gables, FL.

Advisor: Drew Armstrong

M.S. August 2012 - May 2014

Mathematics. University of Miami. Coral Gables, FL.

B.S. August 2008 - May 2012

Mathematics Statistics and Music. University of Minnesota Duluth. Duluth, MN.

TECHNICAL STRENGTHS

Computer Languages C/C++, Javascript, LAMP, Python, Tensorflow

Software & Tools LaTeX, Sage, Mathematica, Maple, R

RESEARCH INTERESTS

My main research interest is **algebraic combinatorics**. I am particularly interested in the combinatorics of **discrete reflection groups** and how it relates to **representation theory**, **partial orders**, **hyperplane arrangements**, and **matroids**.

COURSES TAUGHT

Math 162, University of Miami, Fall 2017

Independent instructor for the course Math 162 (Calculus II) at The University of Miami. The position involved teaching three 75-minute lectures per week, holding office hours, setting homework and quizzes, assisting in setting and grading the preliminary and final exams.

Math 161, University of Miami, Fall 2016

Independent instructor for the course Math 161 (Calculus I) at The University of Miami. The position involved teaching four one hour lectures per week, holding office hours, setting homework and quizzes, assisting in setting and grading the preliminary and final exams.

Math 107 University of Miami, Spring 2016

Independent instructor for the course Math 107 (pre-calculus) at The University of Miami. The position involved teaching three one hour lectures per week, holding office hours, setting homework and quizzes, assisting in setting and grading the preliminary and final exams.

OTHER TEACHING EXPERIENCE

Teaching assistant for Calculus I and II (2012-2015)

Worked in a computer lab assisting students with Mathematica, Sage, and other math software.

Private tutoring for GRE prep, modern algebra, linear algebra, probability and statistics, etc. (2012-present)

SPEAKING OPPORTUNITIES

- [12] AMS Eastern Section Meeting, Polynomials in Enumerative, Algebraic, and Geometric Combinatorics. Buffalo, NY. September 2017
- [11] Formal Power Series and Algebraic Combinatorics. London, UK. July 2017
- [10] University of South Carolina Graduate Student Seminar. Columbia, SC. April 2017 (invited)
- [9] Graduate Student Combinatorics Conference. Laurence, KS. April 2017
- [8] 48th Southeastern International Conference on Combinatorics, Graph Theory & Computing, Boca Raton, FL. March 2017
- [7] Free Probability Seminar, Universität des Saarlandes, Saarbrücken, Germany. November 2016
- [6] AMS Central Section Meeting, Enumerative Combinatorics. Minneapolis, MN. October 2016
- [5] MMMM Combinatorics Graduate Student Workshop. Winnipeg, MB. Canada April 2016
- [4] Graduate Student Combinatorics Conference. Clemson, SC. April 2016
- [3] Combinatorics Seminar University of Miami. Coral Gables, FL. March 2016
- [2] AMS Southeastern Sectional Meeting, The Combinatorics of Symmetric Functions. Athens, GA. March 2016 (Invited)
- [1] Graduate Student Seminar University of Miami. Coral Gables, FL. February 2016

PROFESSIONAL MEMBERSHIPS

American Mathematical Society

SERVICE

Organizer for the University of Miami Graduate Student Seminar 2016-present

Systems administrator for Graduate Student Seminar website

WORKSHOPS/SUMMER SCHOOLS ATTENDED

Geometric and Enumerative Combinatorics, IMA, Minneapolis, MN. November 10-14, 2014

Algebraic and Geometric Combinatorics of Reflection Groups Workshop, Montreal, CA. June 5-June 9, 2017

AWARDS

Graduate Student Fellowship, University of Miami. 2012-2017.

Alworth Scholarship (\$20,000) for exceptional undergraduate students in math and science. 2008-2012. Best in Class Scholarship Half-tuition for four years at University of MN, Duluth 2008-2012

REFERENCES

Drew Armstrong, University of Miami, armstrong@math.miami.edu Dalibor Froncek, University of Minnesota Duluth, froncek@d.umn.edu