

Alyssa Genschaw

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Education

Ph.D. - Mathematics May 2019
University of Missouri, Columbia, MO
Dissertation Title: Absolute Continuity of Parabolic Measure and the Initial-Dirichlet Problem
Dissertation Advisor: Steve Hofmann

Master of Science - Mathematics August 2015
Northern Illinois University, Dekalb, IL

Bachelors of Science - Mathematics May 2013
Magna Cum Laude
Northern Michigan University, Marquette, MI

Awards & Grants

AMS Travel Grant, American Mathematical Society, 2018.
Grant to participate in the “Research Term on Real Harmonic Analysis and Its Applications to Partial Differential Equations and Geometric Measure Theory”, ICMAT & NSF, 2018.
Nigel Kalton Fellowship, University of Missouri, 2018.
John D. Bies International Travel Award, University of Missouri, 2018.
Distinguished Teaching Award, University of Missouri, 2017.
Outstanding Community Service Award, University of Missouri, 2017.
Blumenthal Graduate Mathematics Fellowship, University of Missouri, 2015.
Teaching Staff Fellowship, University of Missouri, 2015.
Certificate of Merit, Northern Illinois University, 2015.

Publications

Counting the Number of Round-Robin Tournament Schedules (with Drake Olejniczak & Qinghong Zhang)
Elemente der Mathematik. 71, (2016) 21-38.

A Weak Reverse Hölder Inequality for Caloric Measure (with Steve Hofmann), preprint 2018, arXiv: 1809.10510.
Accepted to the *Journal of Geometric Analysis*.

BMO Solvability and Absolute Continuity of Caloric Measure (with Steve Hofmann), preprint 2019, arXiv: 1904.08407.

Employment

University of Connecticut — Storrs, CT
- *Visiting Assistant Professor* August 2019-Present

University of Missouri — Columbia, MO
- *Graduate Assistant* August 2015 – May 2019

Phi Gamma Delta Fraternity — Columbia, MO
- *Tutor* August 2017 – May 2018

Northern Illinois University — Dekalb, IL
- *Graduate Assistant* August 2013 – May 2015

Mathnasium — Dekalb, IL
- *Instructor* May 2014 – January 2015

Presentations

On the Number of Schedules by the Round Robin Algorithm

- Argonne National Laboratory Undergraduate Symposium, Fall 2012.
- The Annual Upper Peninsula Mathematics Meeting, Fall 2012.
- Poster Presentation at the Celebration of Student Research, Creative Works, and Academic Service Learning, NMU, April 2013.

Bilateral Corona Decomposition — Graduate Analysis Seminar, University of Missouri, Fall 2017.

A weak reverse Hölder inequality for parabolic measure

- Analysis Seminar, Kansas State University, May 2018.
- Analysis Seminar, Georgia Institute of Technology, October 2018.
- AMS Special Session: Harmonic Analysis and Partial Differential Equations, University of Arkansas, November 2018.

Workshops & Conferences

MSRI Harmonic Analysis Program — University of California - Berkeley, Summer 2016.

AMS Special Session on Women in Analysis and Partial Differential Equations — University of Minnesota, Fall 2016.

Research Term on Real Harmonic Analysis and its Applications to Partial Differential Equations and Geometric Measure Theory — ICMAT, Madrid, Summer 2018.

IAS/PCMI 2018: Harmonic Analysis, Summer Graduate School — Park City, UT, Summer 2018.

Women and Mathematics Program — Princeton, NJ, May 2019.

Teaching Experience

Differential Equations (Online): Course Coordinator, Spring 2019, University of Missouri.

Matrix Theory (Online): Course Coordinator, Spring 2019, University of Missouri.

Advanced Calculus of One Real Variable I: Recitation Instructor, Fall 2018, University of Missouri.

Calculus 2: Instructor, Fall 2018, University of Missouri.

Calculus 3: Instructor, Spring 2018, University of Missouri.

Calculus 2: Recitation Instructor, Fall 2017, University of Missouri.

Precalculus: Course Coordinator/Instructor, 2016-2017, University of Missouri.

Calculus 1: Recitation Instructor, Fall 2016, University of Missouri.

College Algebra: Instructor, Summer 2016, University of Missouri.

Finite Mathematics: Instructor, Spring 2016, University of Missouri.

College Algebra: Instructor, Fall 2015, University of Missouri.

Calculus 1: Instructor, Spring 2015, Northern Illinois University.

College Algebra: Recitation Instructor, Fall 2014, Northern Illinois University.

College Algebra Emporium: Teaching Assistant, Spring 2014, Northern Illinois University.

Trigonometry and Elementary Functions: Recitation Instructor, Fall 2013, Northern Illinois University.

Volunteer Work & Organizations

Math@CASE: University of Missouri, August 2018-May 2019

- The Center for Academic Success & Excellence, also known as CASE, is a campus support center for underrepresented ethnic students. Through communication with their organization, I created this program, which offers weekly mathematical tutoring for their students, given by our graduate department and faculty.

Senior Mentor for First Year Graduate Students: University of Missouri, August 2018-May 2019

Association for Women in Mathematics: University of Missouri Chapter

- Secretary: May 2016-May 2017
- President: May 2018-Present

American Mathematical Society: University of Missouri Chapter

- Secretary: May 2016-May 2018

Mentor for First Year Graduate Students: University of Missouri, August 2016-May 2018

Graduate Representation Council: University of Missouri, Mathematics Department, August 2015-May 2016

Grade A Tutoring: Columbia, MO

- Math tutor for underprivileged students: January 2016-May 2017

ICTM Regional High School Math Contest: Northern Illinois University

- Helped run a local high school math contest: 2014 & 2015

Math Club: Northern Michigan University, 2010-2013

Circle K: Northern Michigan University, 2010-2013