

Megan Maguire

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Education

- 2007–2010 **BS, Mathematics**, *College of Creative Studies, University of California, Santa Barbara*,
Emphasis on pure mathematics.
- 2010 – 2012 **MA, Mathematics**, *University of California, Santa Babara*.
- 2012 – present **Ph.D., Mathematics**, *University of Wisconsin – Madison*, in progress.

Experience

Publications

- 2016 M. Maguire with appendix by M. Christie and D. Francour, *Computing cohomology of configuration spaces*, arxiv.org/abs/1612.06314, 2016.

Invited Talks

- April 2016 *Upper Midwest Commutative Algebra Colloquium, University of Minnesota*.
- March 2017 *Purdue Topology Seminar, Purdue University*.
- April 2017 *AMS Spring Sectional, Special Session in Representation Stability, Indiana University*.
- Fall 2017 *University of Oregon Topology Seminar, University of Oregon*.

Contributed Talks

- April 2016 *Graduate Student Conference in Geometry and Topology, Indiana University*.
- May 2016 *Graduate Student Conference in Algebra, Geometry, and Topology, Temple University*.
- June 2016 *Topology Students Workshop, Georgia Institute of Technology*.
- July 2016 *Young Topologists' Meeting, Copenhagen University*.
- April 2017 *Graduate Student Geometry and Topology Conference, Michigan State University*.
- May 2017 *Braids in Algebra, Topology, and Geometry, ICMS*.

Teaching

Teaching Assistant, *UW–Madison Department of Mathematics*.

Fall 2012 – Spring 2013 MATH 221: Calculus and Analytic Geometry I

-Led two discussion sections and graded exams, homework, and quizzes.

Summer 2015 MATH 112: College Algebra

- Led a discussion section and graded quizzes.

Fall 2014 MATH 211: Calculus

-Led two discussion sections and graded exams, homework, and quizzes.

Fall 2015 MATH 375: Topics in Multi-variable Calculus and Linear Algebra

-Led two discussion sections and graded exams, homework, and quizzes.

2010–2012 **Teaching Assistant**, *UCSB Mathematics Department*.

Spring 2012 MATH 118C: Introduction to Real Analysis III

- Held office hours and graded homework and exams.

Fall 2011 – Winter 2012 MATH 3C: Differential Equations and Linear Algebra I

- Led discussion sections and graded exams and quizzes.

Summer 2011 MATH 34B: Calculus for Social and Life Sciences, II

- Led discussion sections and graded exams and quizzes.

Spring 2011 MATH 5A: Differential Equations and Linear Algebra II

- Led discussion sections and graded exams and quizzes.

Fall 2010 – Winter 2011 MATH 3A: Calculus with Applications I

- Led discussion sections and graded exams and quizzes.

Service

- 2015 – present **Co-director and Mentor**, *Directed Reading Program*.
Founded and organized the Directed Reading Program at UW-Madison from Fall 2015 until the present.
Fall 2015 Worked with a student on a reading course on modular arithmetic.
Spring 2016 Worked with two students on a reading course on the fundamental group.
Fall 2016/Spring 2017 Worked with two students in fall and three students in spring on a reading course on Young tableaux.
- 2015 – 2017 **Copy Editor**, *Journal of Communications in Mathematical Sciences*.
-Edited journal articles for grammar and format.
- 2014 – 2016 **Problem Writer and Grader**, *Mega Math Meet*.
- Wrote and graded problems for an annual middle school mathematics competition organized by the UW-Madison Math Department in 2014, 2015, and 2016
- 2016–present **Math Help Desk**.
-Advised undergraduate students on which math courses were most appropriate for them to take and helped them find a class that fit in their schedule
- Summer 2015 **Mentor**, *UW-Madison – Nazarbayev University Graduate Mentoring Program*.
-Mentored five undergraduate mathematics majors from Nazarbayev University while they were at UW-Madison for the summer.
- Traveled to Nazarbayev University in Astana, Kazakhstan in October 2015 as part of a team of seven graduate mentors to host panels on applying to graduate schools and work with students individually on their applications.
- 2014 – 2017 **Mentor**, *Girls Math Night Out*.
Fall 2015 and Spring 2017 – Designed my own project on Groebner bases and applications to robotics and worked with two high school girls on it.
Fall 2014 – Worked with two high school girls on a project designed to teach them about cryptology.
- 2014 – 2015 **Organizer**, *UW-Madison Graduate Number Theory Seminar*.
-Organized speakers for the weekly graduate number theory seminar for three semesters.
- 2016 – present **Organizer**, *Algebra RTG Lunch*.
-Organized weekly lunches with graduate students, professors, and post docs to discuss professional development topics in an informal setting.