

# Marissa Miller

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CONTACT INFORMATION	<b>Current Affiliation:</b> University of Illinois at Urbana-Champaign, Department of Mathematics <b>Email:</b> marissa9@illinois.edu <b>Directory Page:</b> <a href="http://math.illinois.edu/directory/profile/marissa9">math.illinois.edu/directory/profile/marissa9</a> <b>Webpage:</b> <a href="http://sites.google.com/view/marissa-miller/home">sites.google.com/view/marissa-miller/home</a>
RESEARCH INTERESTS	My research interests lie in geometric group theory. I am specifically interested in notions of negatively curved behavior in groups, mapping class groups, and handlebody groups.
EDUCATION	<b>University of Illinois at Urbana-Champaign</b> August 2017 – present Ph.D. Candidate in Mathematics Expected graduation: May 2023 Advisor: Chris Leininger <b>University of Illinois at Urbana-Champaign</b> August 2017 – May 2019 Master's in Mathematics <b>Smith College</b> August 2016 – May 2017 Post-Baccalaureate Certificate in Mathematics <b>Azusa Pacific University</b> August 2012 – May 2016 B.S. in Mathematics; B.S. in Computer Science
PUBLICATIONS AND PREPRINTS	<b>Stable subgroups of the genus two handlebody group,</b> Preprint.
CONFERENCE TALKS	AMS Southeastern Sectional Meeting, March 2021 Special session on “Groups, Geometry, and Topology” Tech Topology Conference, (lightning talk) December 2020 Topology Students Workshop July 2020 Hudson River Undergraduate Mathematics Research Conference April 2017 Smith College Lunch Seminar April 2017 Joint Math Meetings, Undergraduate Research Talks January 2017 Smith College Lunch Seminar December 2016
SEMINAR TALKS	Bristol Geometry and Topology Seminar January 2021 CUNY Geometry and Topology Seminar November 2020 University of Virginia Geometry Seminar November 2020 Rice Topology Seminar November 2020 Bristol Junior Geometry Seminar November 2020
AWARDS AND HONORS	University Fellowship, University of Illinois Spring 2019 Graduate Assistance in Areas of National Need Fellowship, University of Illinois Fall 2017 - Fall 2018

List of Teachers Ranked as Excellent, University of Illinois All semesters of teaching  
 Summa Cum Laude, Azusa Pacific University May 2016  
 Outstanding Senior Mathematics Major, Azusa Pacific University May 2016  
 Outstanding Senior Computer Science Major, Azusa Pacific University May 2016  
 Anderson Scholarship, Azusa Pacific University Dept. of Computer Science 2014  
 President's Scholarship, Azusa Pacific University 2012-2016

TEACHING  
EXPERIENCE

**University of Illinois at Urbana-Champaign, Urbana, IL**  
 Head TA, Calculus III Fall 2020  
 Teaching Assistant, Calculus III Fall 2019, Spring 2020, Fall 2020  
 Teaching Assistant, Calculus II for Engineers Fall 2018

**Smith College, Northampton, MA**  
 Grader, Calculus III Spring 2017  
 Math Tutor Fall 2016 – Spring 2017  
 Teaching Assistant, Real Analysis Fall 2016

**Azusa Pacific University, Azusa, CA**  
 Grader, Abstract Algebra Spring 2016  
 Math Tutor Spring 2015 – Spring 2016  
 Teaching Assistant, Discrete Mathematics Spring 2014

WORKSHOPS AND  
CONFERENCES  
ATTENDED

*Topology Student Workshop*, online, July 2020  
*Young Geometric Group Theory IX*, Saint-Jacut-de-la-mer, France, February 2020  
*Combinatorial and Algebraic Aspects of Geometric Structures*, Chiang Mai University, Thailand, July 2019  
*Graduate School on Geometry of Teichmüller Spaces*, Simons Center for Geometry and Physics, Stony Brook University, April 2019  
*Graduate Student Topology and Geometry Conference 2019*, University of Illinois at Urbana-Champaign, IL, March 2019  
*Hudson River Undergraduate Mathematics Research Conference*, Westfield State University, MA, April 2017  
*Joint Math Meetings*, Atlanta, GA, January 2017  
*Women in Mathematics in New England (WIMIN)*, Smith College, MA, September 2016

OUTREACH AND  
SERVICE

**COVID-19 Taskforce for Math/Stats Building Usage** Summer 2020  
*Developed recommendations for usage of Math and Stats buildings during and following the COVID-19 pandemic. Chaired the Coble Basement working group.*

**Graduate Research Opportunities for Women, Panelist** Spring 2019  
*Answered questions from and engaged with female undergraduates interested in graduate school.*

**Girls Engaged in Math and Science, Volunteer** Spring 2019  
*Developed and led activities pertaining to math and nature for middle school girls.*

**Sonia Math Day, Volunteer** Spring 2019  
*Developed and led activities pertaining to abstract algebra for high school girls.*

**Girls Who Code, Leader** Fall 2015 – Spring 2016  
*Taught middle school girls from low income backgrounds the basics of computer programming.*

OTHER WORK AND  
RESEARCH  
EXPERIENCES

**University of Illinois Undergraduate Advising**  
Graduate Assistant, University of Illinois Summer 2019, Summer 2020

**SCAMP Summer Program**  
Participant, Center for Communications Research at Princeton Summer 2017, Summer 2018

**Department of Defense Internships**  
Intern, Director's Summer Program Summer 2016  
Intern, Cryptanalysis and Exploitation Summer Program Summer 2015