Margaret Nichols

CONTACT INFORMATION	Department of Mathematics University at Buffalo 244 Mathematics Building Buffalo, NY 14260	Email: nicholsm@buffalo.edu Citizenship: US

EMPLOYMENT
University at Buffalo, Buffalo, NY
Visiting Assistant Professor   *Aug 2019 - present*

EDUCATION
University of Chicago, Chicago, IL
Ph.D Mathematics   *Sept 2013 - June 2019*
Advisor: Danny Calegari

M.S. Mathematics   *June 2015*

Oberlin College, Oberlin, OH
B.A. Mathematics with Highest Honors   *May 2013*
Minor in Computer Science

Budapest Semesters in Mathematics, Budapest, Hungary   *Fall 2011*

PUBLICATIONS/ PREPRINTS

Taut sutured handlebodies as twisted homology products, preprint. arXiv:1810.07353

Comparing the generalized roundness of metric spaces, Bull. Aust. Math. Soc., Volume 92, Issue 2 (2017) (with Lukiel Levy-Moore and Anthony Weston).

Bijective projections on parabolic quotients of affine Weyl groups, Journal of Algebraic Combinatorics, Volume 41, Issue 4 (2015) (with Elizabeth (Beazley) Milićević, Min Hae Park, XiaoLin Shi, and Alexander Youcis).

TALKS GIVEN/ UPCOMING

Taut sutured handlebodies as twisted homology products
  – Penn State, AMS Fall Eastern Sectional Meeting   *Oct 2020*
  – Eastern Illinois Conference in Geometry, Dynamics, and Topology   *(postponed)*
  – Spring Topology and Dynamical Systems Conference   *(postponed)*
  – Rutgers University, Geometry/Topology Seminar   *Feb 2020*
  – Boston College, Geometry/Topology Seminar   *Nov 2019*
  – Columbia University, Geometric Topology Seminar   *Oct 2019*
  – Binghamtom University, AMS Fall Eastern Sectional Meeting   *Oct 2019*
  – University at Buffalo, Geometry and Topology Seminar   *Sept 2019*
  – University of Michigan, LG&TBQ   *June 2019*
  – University of Georgia, Georgia Topology Conference   *May 2019*
  – University of Virginia, Geometry Seminar   *Apr 2019*
  – CUNY, Geometry and Topology Seminar   *Mar 2019*
  – Joint Math Meetings, Special Session on Women in Topology   *Jan 2019*
  – University of Illinois, Geometry, Groups, and Dynamics Seminar   *Nov 2018*

– University of Illinois - Chicago, Geometry, Topology, and Dynamics Seminar *Oct 2018*

– Washington University in St. Louis, Geometry and Topology Seminar   *Oct 2018*

– University of Michigan, Topology Seminar   *Sept 2018*

– Temple University, GSCAGT   *June 2018*

HONORS AND AWARDS	NSF Graduate Research Fellowship, *2013 - 2018*

NSF Graduate Research Fellowship, *2013 - 2018*

Edward T. Wong Prize in Mathematics, Oberlin College, *2013*

Phi Beta Kappa, *inducted May 2013*

Sigma Xi, *inducted May 2013*

Young Mathematicians Conference, second prize for outstanding presentation, *2012*

Vance Scholarship in Mathematics, Oberlin College, *2009 - 2013*

TEACHING

University at Buffalo

Instructor, *2019-2020*

– Math 309 - Linear Algebra

University of Chicago

Instructor, *2018 - 2019*

– Math 152 - Calculus 2

– Math 151 - Calculus 1

Grader, *Fall 2017*

– Math 317 - Graduate Algebraic Topology

Instructor, *2016 - 2017*

– Math 153 - Calculus 3

– Math 152 - Calculus 2

College Fellow, *2014 - 2015*

– Math 274 - Differential Manifolds and Integration, with Sid Webster

– Math 176 - IBL Basic Geometry, with Denis Hirschfeldt

– Math 203 - Analysis in $\mathbb{R}^n$, with Alex Eskin

SERVICE

Mentor, UChicago Directed Reading Program, *Fall 2015, Spring 2018*

Association for Women in Mathematics, UChicago Chapter

– Webmaster, *2018 - 2019*

– President, *2016 - 2018*

– Vice President, *2015 - 2016*

Department Representative, UChicago Dean's Student Advisory Committee, *2015 - 2016*

Co-organizer of UChicago math department warm-up program (WOMP), *Fall 2015*