

CONTACT INFORMATION	Mathematics Department Temple University 1805 N. Broad St. Philadelphia, PA 19122	(718)887-6385 william.worden@temple.edu
RESEARCH INTERESTS	Hyperbolic Geometry, Low-Dimensional Topology	
EDUCATION	<b>Temple University</b> PhD expected May 2018 (Advisor: Dave Futер) Teaching in Higher Education Certificate, August 2015 M.S. in Mathematics, May 2014	
	<b>The City College of New York</b> B.S. in Mathematics, May 2012	
HONORS AND AWARDS	<b>Temple University</b> <i>Doctoral Dissertation Completion Grant</i> – Spring 2018 <i>2015-2016 Excellence in Service by a Graduate Student Award</i> <i>Summer Research Grant</i> , Summer 2016 <i>Teaching Assistantship</i> , Fall 2014 – Spring 2016 <i>University Fellowship</i> , Fall 2012 – Spring 2014	
	<b>The City College of New York</b> <i>Summa Cum Laude</i> , 2012 <i>Belden Medal</i> , 2012 <i>Emil L. Post Memorial Award</i> , 2012 <i>Dr. Barnett and Jean Hollander Rich Mathematics Summer Internship Grant</i> , 2011 <i>Mazur Award</i> , 2010	
PUBLICATIONS/ PREPRINTS	W. Worden, <i>Experimental statistics of veering triangulations</i> , to appear in <i>Experimental Mathematics</i> , arXiv:1710.01198.	
	C. Millichap and W. Worden, <i>Hidden symmetries and commensurability of 2-bridge link complements</i> . <i>Pacific Journal of Mathematics</i> , Vol. 285 (2016), No. 2, 453-484. DOI: 10.2140/pjm.2016.285.453. arXiv:1601.01015 [math.GT]	
	W. Worden, <i>Iterations of quadratic polynomials over finite fields</i> . <i>Involve, a Journal of Mathematics</i> 6-1 (2013), 99-112. DOI 10.2140/involve.2013.6.99	
RESEARCH TALKS	<i>Veering triangulations: theory and experiment</i> , Geometry and Topology Seminar, University of Sydney. (March 2018)	
	<i>Hidden symmetries and commensurability of 2-bridge link complements</i> , Geometry/Topology Seminar, Rutgers - New Brunswick. (April 2018)	

*Genericity of non-geometric veering triangulations*, 2017-2018 Warwick EPSRC Symposium: Geometry, Topology, and Dynamics in Low Dimensions – Computation in geometric topology, University of Warwick (December 2017)

*Experimental statistics of veering triangulations*, Geometry Topology Seminar, Georgia Tech (June 2017)

*Hidden symmetries and commensurability of 2-bridge link complements*, AMS Sectional Meeting: Special Session on Invariants in Low-Dimensional Topology, Hunter College. (May 2017)

*Experimental statistics of veering triangulations*, CUNY Geometry and Topology Seminar, CUNY Graduate Center. (April 2017)

*Experimental statistics of veering triangulations*, Geometry and Topology Seminar, Temple University. (February 2017)

*Hidden symmetries and commensurability of 2-bridge link complements*, Geometry Topology & Physics Seminar, University of Pittsburgh. (November 2016)

*Hidden symmetries and commensurability of 2-bridge link complements*, Redbud Triangulations Conference, Oklahoma State University (November 2016)

*Hidden symmetries and commensurability of 2-Bridge link complements*, Topology Student Workshop, Georgia Institute of Technology (June 2016)

*Hidden symmetries and commensurability of 2-bridge link complements*, Binghamton University Graduate Conference in Algebra and Topology, SUNY Binghamton, November 2015

*Iterations of quadratic polynomials over finite fields*, Mid-Hudson Mathematics Conference for Undergraduates, Bard College (October 2011)

EXPOSITORY TALKS *What is it like to live in a 3-dimensional torus?*, Undergraduate Math Club seminar, Temple University (November 2017)

*Minkowski space: where hyperbolic geometry meets special relativity*, Graduate Student Seminar, Temple University (October 2015)

*The Hopf fibration of the 3-sphere*, Graduate Student Seminar, Temple University (October 2014)

TEACHING  
EXPERIENCE

Fall 2017	Instructor – Calculus II
Summer 2017	Instructor – Calculus I
Spring 2017	Teaching Assistant – Senior Problem Solving
Fall 2016	Instructor – Calculus I
Spring 2016	Teaching Assistant – Modern Algebra
Fall 2015	Instructor – Calculus II
Summer 2015	Instructor – Calculus I
Spring 2015	Instructor – Calculus I
Fall 2014	Teaching Assistant – Calculus I

SERVICE/  
OUTREACH

Visiting Mentor — 2017 Georgia Tech REU in Geometric Group Theory, May 2017

Graduate Advisor — Temple Undergraduate Math Club, Fall 2017 and Spring 2018

Graduate Committee — Graduate Student Conference in Algebra, Geometry and Topology, Temple University, June 2017

Volunteer — Sonia Kovalevsky Mathematics Day for Girls, Temple University, April 2017

Volunteer — Philadelphia pre-K Math Circles, March 2017

Volunteer/Teaching Assistant — Sonia Kovalevsky Mathematics Day for Girls, Temple University, April 2016

Co-Organizer — Graduate Student Conference in Algebra, Geometry and Topology, Temple University, May 2016

Graduate Committee — Graduate Student Conference in Algebra, Geometry and Topology, Temple University, May 2015

CONFERENCES/  
WORKSHOPS

2017-2018 Warwick EPSRC Symposium: Geometry, Topology, and Dynamics in Low Dimensions – Computation in geometric topology, University of Warwick, December 2017 (speaker)

Shanks Conference on Low-Dimensional Topology and Geometry, Vanderbilt University, May 2017

AMS Sectional Meeting: Special Session on Invariants in Low-Dimensional Topology, Hunter College, May 2017 (speaker)

Redbud Triangulations Conference, Oklahoma State University, November 2016 (speaker)

Topology Student Workshop, Georgia Institute of Technology, June 2016

Advanced School of Geometric Group Theory and Low-Dimensional Topology: Recent Connections and Advances, International Centre for Theoretical Physics, May/June 2016

Graduate Student Conference in Algebra, Geometry and Topology, Temple University, May 2016

Graduate Student Topology and Geometry Conference, Indiana University, April 2016

Binghamton University Graduate Conference in Algebra and Topology, Binghamton University, November 2015 (speaker)

Workshop on Geometric Structures on 3-Manifolds, Institute for Advanced Study, October 2015

Classical and Quantum Hyperbolic Geometry and Topology in honor of Francis Bonahon, Université Paris-Sud (Orsay), July 2015

Graduate Student Conference in Algebra, Geometry and Topology, Temple University, May 2015

Graduate Student Topology and Geometry Conference, University of Illinois Urbana-Champaign, March 2015

Binghamton University Graduate Conference in Algebra and Topology, Binghamton University, October 2014

Graduate Student Topology and Geometry Conference, University of Texas at Austin, March 2014

Joint Mathematics Meetings, Baltimore MD, January 2014

Fall Eastern Sectional Meeting of the American Mathematical Society, Temple University, October 2013

Mid-Hudson Mathematics Conference for Undergraduates, Bard College, October 2011 (speaker)