
Tullia Dymarz

Department of Mathematics
University of Wisconsin
Madison WI 53706

<http://www.math.wisc.edu/~dymarz>
dymarz@math.wisc.edu
(608) 320-9960

Employment

University of Wisconsin, Department of Mathematics, (August 2011 - present)
Assistant Professor (tenure track)

Université Paris-Sud 11, Département de Mathématiques, (July 2010 - July 2011)
Postdoctoral

Yale University, Department of Mathematics, (January 2008 - June 2010)
Gibbs Assistant Professor

Mathematical Sciences Research Institute, (August 2007 - December 2007)
Postdoctoral

Education

University of Chicago Ph.D Mathematics (June 2007) *Thesis Advisor:* Benson Farb
University of Chicago M.A Mathematics (June 2003)
University of Alberta BSc. Honors Mathematics (June 2001)

Visiting Positions

August - December 2016 Mathematical Sciences Research Institute - Research Member, Berkeley
January - March 2014 IHP Special trimester on Random walks and asymptotic group theory, Paris, France
January - March 2011 IHP Special trimester on Metric geometry, algorithms and groups, Paris, France
November 2009 Hausdorff Institute trimester on Rigidity, Bonn, Germany

Grants and Honors

2016 NSF CAREER
2016 Honored Instructor Teaching Award
2015 Honored Instructor Teaching Award
2014 Wisconsin Alumni Research Foundation Fall Competition Grant
2013 Honored Instructor Teaching Award
2013 Baldwin Wisconsin Idea Endowment Grant
2012 NSF Research grant DMS - 1207296
2012 NSF conference grant "Young Geometric Group Theory Conference" 2012
2005 Lawrence and Josephine Graves Prizes for Excellence in Undergraduate Teaching
2003 NSERC Postgraduate Scholarship B
2001 NSERC Postgraduate Scholarship A (Declined)

Graduate Students

Meng-Che Ho Ph.D. expected Spring 2017
Carolyn Abbott Ph.D. expected Spring 2017
Micky Steinberg Ph.D. expected Spring 2019

Professional Service

2015 Principal organizer of AMS special session, *Metric spaces: Groups, Geometry and Dynamics*, Chicago IL
2014 Principal organizer of *Young geometric group theory in the midwest workshop* Madison WI
2013 Panelist for NSF Research Grants
2013 Scientific committee member for *Young geometric group theory conference II* Haifa, Israel
2013 Co-organizer of *AMS Mathematics Research Community workshop* Snowbird, Utah

Publications

Bijjective quasi-isometries of amenable groups.

Geometric methods in group theory, 181-188, Contemp. Math., 372, Amer. Math. Soc., Providence, RI, (2005)

Large scale geometry of certain solvable groups.

Geometric And Functional Analysis, volume 19-6 (2009), 1650-1687.

Bijjective equivalence is not equivalent to quasi-isometric equivalence for finitely generated groups.

Duke Mathematical Journal, volume 154-3 (2010), 509-526.

Bilipschitz maps of boundaries of certain negatively curved homogeneous spaces.

(with I. Peng) Geometriae Dedicata volume 152 (2011)

Quasisymmetric maps of boundaries of amenable hyperbolic groups.

IUMJ Indiana University Mathematics Journal 63 (2014), 329-343.

Rigidity with locally compact targets for certain solvable groups.

Comment. Math. Helv. 90 (2015), 195-224.

Bilipschitz versus quasi-isometric equivalence for higher rank lamplighter groups

(with I. Peng and J. Taback) New York Journal of Mathematics 21 (2015), 129-150.

Day's fixed point theorem, Group Cohomology and Quasi-isometric rigidity

(with X. Xie) to appear in Groups, Geometry and Dynamics. (2016)

Non-rectifiable Delone sets in SOL and other solvable groups

(with A. Navas) to appear in Indiana University Mathematics Journal (2016)

A matrix model for random nilpotent groups

(with K. Delp and A. Schaffer-Cohen) Submitted and in revision (2016)

Separated nets in nilpotent groups

(with M. Kelly, S. Li and A. Lukyanenko) Submitted (2016)

Quasi-isometric classification of Baumslag-Gersten groups and related groups

(with J. Taback and K. Whyte) In preparation. (2016)

Recent talks and seminars

Women's workshop MSRI - August 2016

Geometry of Groups in Montevideo Uruguay - April 2016

Ohio State - Topology Seminar - April 2016

City College of New York - Colloquium - February 2016

CMS winter meeting, special session on geometric group theory - Dec 2015

University of Wisconsin - Milwaukee - Topology Seminar - November 2015

University of Toronto - Geometry Seminar - October 2015

University of Michigan - Topology Seminar - October 2015

Januszkiewicz Birthday Conference - Poland - June 2015

49th Spring topology conference - Semi-plenary speaker - May 2015

Louisiana State University - Topology Seminar - April 2015

University of Victoria - Topology Seminar - April 2015

Trinity University - Colloquium - March 2015

Cornell University - Colloquium - November 2014

University of Illinois at Urbana-Champaign - Group theory seminar - April 2014

Universit de Rennes - Geometry/Topology Seminar - March 2014

Jyväskylä, Finland - Geometry Seminar - February 2014

BIRS Workshop - Metric Geometry, Geometric Topology and Groups - August 2013

Cube complexes and 3-manifolds - Conference - May 2013

University of Wisconsin - Madison - Colloquium - January 2013
Bowling Green State University - Colloquium - January 2013
Michigan State - Geometry/Topology Seminar - October 2012
Coarse geometry of infinite groups conference - France - June 2012
Bloomington Geometry Workshop - April 2012
Groups on the Gulf conference - April 2012
University of Wisconsin - Milwaukee, Colloquium - March 2012
Wasatch Topology Conference - December 2011
University of Maryland, Geometry and Topology Seminar - October 2011

Teaching Experience

Assistant Professor, University of Wisconsin Madison. 2011-present

Math 851 Topics in Geometry - Rigidity in Geometry (Graduate)
Math 542 Modern Algebra II
Math 375-376 Honors Calculus III-IV
Math 751-752 Algebraic Topology I-II (Graduate)
Math 171-217 Calculus with Algebra and Trigonometry I-II
Math 747 Lie Algebras (Graduate)
Math 847 Topics in Algebra - Intro to Geometric Group Theory (Graduate)
Math 340 Linear Algebra
Math 441 Introduction to Modern Algebra

Gibbs Assistant Professor, Yale University. 2008-2010

Math 858 Notions of Negative Curvature (Graduate)
Math 222 Linear Algebra
Math 858 Topics in Geometric Group Theory (Graduate)
Math 430 Algebraic Topology (Undergraduate)
Math 858 Techniques from Quasi-isometric Rigidity (Graduate)
Math 120 Calculus 3 (Course coordinator)

Lecturer in Mathematics, University of Chicago. 2003-2007

Math 163 Honors Calculus
Math 195-196 Mathematical Methods for Social Sciences
Math 152-153 Calculus 2 and 3

Teaching Assistant, University of Chicago, Paris Center. Spring 2006

College Fellow in Mathematics, University of Chicago. 2002-2003

Other Service

Univeristy of Wisconsin, Madison

Colloquium co-organizer (2015/2016)
Geometry/Topology seminar organizer (2015/2016)
Co-organizer for Girls Math Night Out! mentoring program for high school women (Fall 2012 - present)
Trinity University undergraduate math major's seminar (March 2015)
Faculty Mentor for Random groups REU/Research Cluster at Tufts university. (June/July 2014)
SoundWaves - Public Lectures, (March 2013, Oct. 2013, May 2014, March 2016)
University of Wisconsin undergraduate math club lecture (Nov. 2012)
Panelist - Graduate School's professional development workshop

Yale Univeristy

Co-organizer for Geometry/Topology Seminar (2009/2010)
Independent Study - Geometric Group Theory Spring (2009)
Co-organizer for Lang Lunches - (Spring 2009) (preparing new graduate students for teaching duties)

University of Chicago

Research Experience for Undergraduates - Summer 2005

Directed Reading Program - Fall 2005, Spring 2005
Chicago Public schools outreach program 2006-2007

Personal

Citizenship: Canada, Poland, Permanent Resident USA (Greenmcard),

Languages: English, Polish, French

Permanent Address: 10811-62 Ave Edmonton Alberta Canada T6H-1M9