

T. Tam Nguyen Phan

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Positions

Assistant Professor, Binghamton University (SUNY), NY, U.S.A. (since August 2013)

Zassenhaus Assistant Professor, Ohio State University, OH, U.S.A. (Sep 2012-Aug 2013).

Education

Ph.D. Mathematics, University of Chicago, Jun 2012 (advisors: Benson Farb, Shmuel Weinberger).

M.Sc. Mathematics, University of Chicago, Aug 2008.

B.Sc. (Honours) Mathematical Physics, University of Canterbury, 2006.

Purdue University, IN, U.S.A. (Exchange Student Program), 2004

Honours & Awards

2014 – 2017: NSF grant DMS-1405185 (\$128,121.00). Topology of non-positively curved manifolds.

Research

Geometric Topology, Differential Geometry.

Submitted papers

Half dimensional collapse of ends of manifolds of nonpositive curvature (2016).

Publications

Non-aspherical ends and nonpositive curvature (with Igor Belegradek), *published in Trans. Amer. Math. Soc.*, 368 (2016), 5363-5376.

Flat cycles in the homology of $SO(m)\backslash SL(m, \mathbb{R})/\Gamma$ (with Grigori Avramidi), *published in Commentarii Mathematici Helvetici*, Volume 90, Issue 3, 2015

A note on non-uniform lattices in negatively curved, non-visibility manifolds, *published in Bull. London Math. Soc.* (2014) 46 (2).

Nonpositively curved manifolds containing a prescribed nonpositively curved hypersurface, *published in Topology Proceedings*, Volume 42, 2013.

Smooth (non)rigidity of piecewise cusped locally symmetric manifolds, *published in J Topology (2012) 5 (2)*.

Smooth (non)rigidity of cusp-decomposable manifolds, *published in Commentarii Mathematici Helvetici, Volume 87, Issue 4, 2012*.

Preprints

On finite volume, negatively curved manifold.

Gluing locally symmetric manifolds: asphericity and rigidity, (*thesis*).

Nil happens, what about Sol?

Actions of higher rank, irreducible lattices on CAT(0) cubical complexes.

Invited talks

Syracuse University, Topology Seminar, March 2016

Spring Topology and Dynamics Conference (as semi-plenary speaker), March 2016

Boston College, Topology Seminar, May 2015

Ohio State University Geometric Group Theory Seminar, April 2014

Spring Topology and Dynamics Conference, March 2014

AWM Research Symposium, Santa Clara University March 2013

AMS Sectional Meeting, Akron, October 2012

Geometry and Topology in Samos, June 2012

Caltech Geometry Topology Seminar, May 2012

Notre Dame University Topology Seminar, April 2012

Rice University Topology Seminar, April 2012

University of Michigan Topology Seminar, April 2012

Geometric Group Theory of the Gulf (G^3) Conference, April 2012

Spring Topology and Dynamics Conference, March 2012

Purdue University Geometric Analysis Seminar, February 2012

Yale Topology/Geometry Seminar, April 2010

Ohio State University Geometric Group Theory Seminar, November 2009

Teaching experience

Sep 2013 - present: Assistant Professor - Department of Mathematics, Binghamton University

Math 330, Number Systems (Fall 2016)
 Math 461, (Undergraduate) Topology (Fall 2016)
 Math 513, (Graduate) Topology (Fall 2015)
 Math 463X, Differential Geometry (Fall 2015)
 MATH 323, Calculus III (coordinator, Fall 2014)
 MATH 371, Ordinary differential equations ($\times 2$)

Sep 2012 - Aug 2013: Visiting Assistant Professor - Department of Mathematics, Ohio State University

MATH 1152, Calculus II ($\times 2$)
 MATH 1118, Math for architects

Sep 2008 - Mar 2012: Lecturer - Department of Mathematics, University of Chicago, IL, U.S.A.

MATH 15100, Calculus I
 MATH 15200, Calculus II ($\times 2$)
 MATH 15300, Calculus III ($\times 2$)
 MATH 17500, Elementary number theory (IBL session)
 MATH 19520, Math Methods for Social Sciences ($\times 4$)
 MATH 19620, Linear Algebra ($\times 2$)

Mar 2011 - June 2011: Teaching assistant - University of Chicago, Paris Math Program

MATH 25916, Topics in partial differential equations
 MATH 25912, Introduction to p-groups
 MATH 20517, Advanced numerical Analysis

Sep 2007 - Jun 2008: College Fellow - Department of Mathematics, University of Chicago, IL, U.S.A.

MATH 203-4-5, Analysis in \mathbf{R}^n I-II-III (IBL session)

Jun 2008 - Aug 2008: Graduate Student Assistant, Research Experience for Undergraduates, Department of Mathematics, University of Chicago

Jan 2008 - June 2009: Mentor, Direct Reading Program, Department of Mathematics, University of Chicago

Riemannian geometry
 Algebraic curves and Riemann surfaces

Jun 2008 - Aug 2008: Teaching Assistant, Collegiate Scholars Program, University of Chicago

Feb 2006 - Jun 2006: Tutor - Department of Mathematics and Statistics, University of Canterbury

MATH 264, Multivariate Calculus and Differential Equations
 MATH 108, General Mathematics

EMTH 210, Engineering Mathematics

Feb 2005 - Oct 2005: Tutor - Department of Mathematics and Statistics, University of Canterbury

MATH 264, Multivariate Calculus and Differential Equations

MATH 254, Linear Algebra

Professional activities and service

May 2015: Organizer of the special session on Geometric Topology in the Spring Topology and Dynamics Conference May 2015.

Sep 2014 - May 2015: Organizer of the Geometry and Topology Seminar at Binghamton University.

Sep 2012 - April 2013: Co-organizer of the Ohio State University Geometric Group Theory Seminar.

Sep 2009 - June 2010: Organizer of the University of Chicago Mathematics Department Farb and Friends Student Seminar.

Sep 2008: Organizer and Speaker of the University of Chicago Mathematics Department Graduate Warm-Up Program.

Last updated: August 18, 2016