Gangotryi Sorcar

CONTACT
INFORMATION

Binghamton University
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RESEARCH
INTERESTS

Differential Topology and Geometry– especially diffeomorphism spaces of negatively curved manifolds, and Teichmüller spaces of negatively curved metrics.

EDUCATION

Binghamton University

Ph.D. Candidate, Mathematics (expected May 2014)

- Dissertation Topic: Teichmüller space of negatively curved metrics on Gromov-Thurston branched covers.
- Advisor: F. Thomas Farrell

Tata Institute of Fundamental Research, CAM, Bangalore, India.

M.S. in Mathematics, May 2009

Jadavpur University, Calcutta, India

B.Sc. in Mathematics, May 2007

- Honors in mathematics with distinction in Statistics and Computer Science.

PUBLICATIONS

G. Sorcar, *The Teichmüller space of negatively curved metrics on the Gromov-Thurston manifolds is non-contractible,* Preprint.

CONFERENCE
TALKS

Teichmüller space of Gromov-Thurston manifolds and hyperbolic manifolds, Joint Mathematical Meeting, Baltimore, (January 2014)

An exotic torus, 11th Annual Graduate Student Topology and Geometry Conference, University of Notre Dame. (April 2013)

Teichmüller space of Gromov-Thurston manifolds, Binghamton University Graduate Conference in Algebra and Topology. (November 2013)

OTHER TALKS

Teichmüller space of negatively curved metrics on a non-locally symmetric negatively curved manifold, Geometric Group Theory Seminar, Ohio State University. (2013)

Teichmüller space of pinched negatively curved metrics on a hyperbolic manifold, Candidacy Talk, Binghamton University. (2011)

Bestvina-Brady Morse Theory, Toeholds in Topology Seminar, Binghamton University. (2010)

On the classification theorem of surfaces, Student Seminar, Tata Institute of Fundamental Research, CAM, Bangalore, India. (2008)

WORKSHOPS AND CONFERENCES attended	Spring	2013	Workshop in the Cohomology of Arithmetic Groups, Chicago, USA
	Spring	2013	Annual Graduate Student Topology and Geometry Conference, University of Notre Dame, USA
	Summer	2012	Topology and Groups Workshop and Seminar, Berlin, Germany
	Spring	2011	Examples of Geometries Workshop, Ohio, USA
	Summer	2010	Geometry Topology and Dynamics in Negative Curvature, ICM Sattelite Conference, Bangalore, India
	Summer	2010	Workshop on Riemannian Geometry, Bangalore, India
	Spring	2008	Workshop on Differential Geometry, Mysore, India
	Fall	2009-2013	Binghamton University Graduate Conference in Algebra and Topology, Binghamton, USA

TEACHING EXPERIENCE	Spring	2014	Instructor, Calculus III
	Fall	2013	Instructor, Calculus I
	Spring	2013	Instructor, Calculus III
	Fall	2012	Instructor, Calculus I
	Fall	2011	Instructor, Calculus I
	Spring	2011	Instructor, Calculus II
	Fall	2010	Instructor, Calculus I
	Spring	2010	Instructor, Calculus I
	Fall	2009	Teaching Assistant, Calculus II

FELLOWSHIPS AND SUPPORTS	2012	Dissertation Year Fellowship
	2011-13	Summer Support from Prof. F. T. Farrell's NSF grant for research.

GRADUATE COURSEWORK

- ❑ Basic Topology
- ❑ Measure Theory
- ❑ Complex Analysis
- ❑ Linear Algebra
- ❑ Functional Analysis
- ❑ Differential Geometry
- ❑ Modern Algebra
- ❑ Probability Theory
- ❑ Riemannian Geometry
- ❑ Geometric Analysis
- ❑ Algebraic Topology
- ❑ Characteristic Classes
- ❑ Geometric Group Theory
- ❑ Arithmetic of Elliptic Curves
- ❑ Morse Theory
- ❑ Homological Algebra

REFERENCES **F.T. Farrell**, Distinguished Professor, Binghamton University, Binghamton, NY 13902
farrell@math.binghamton.edu