

Sushmita Venugopalan

CONTACT INFORMATION

Department of Mathematics
110 Frelinghuysen Rd
Piscataway, NJ 08904, USA

sushvenu@math.rutgers.edu
www.math.rutgers.edu/~sushvenu

RESEARCH INTERESTS

Symplectic geometry, gauge theory

EDUCATION

Rutgers University, New Brunswick, New Jersey USA

Ph.D. Candidate, Mathematics (expected graduation date: April 2012)

- Dissertation Topic: Yang-Mills heat flow on gauged holomorphic maps
- Advisor: Chris Woodward

Indian Institute of Technology Delhi, New Delhi, India

Bachelors, Computer Science and Engineering, May, 2006

TALKS

- *Vector bundles, connections and holomorphic structures*, Graduate student geometry seminar, Rutgers, Fall 2011.
- *Yang Mills heat flow on gauged holomorphic maps*, AMS sectional meeting, Cornell, Ithaca, September 2011.
- *Vortex Equations*, Graduate student geometry seminar, Rutgers, Fall 2010.
- *Gromov compactness for holomorphic curves*, Graduate symplectic field theory workshop, Raymond, Maine, September 2010.
- *A look at Morse functions*, Graduate student pizza seminar, Rutgers, Fall 2007.

TEACHING EXPERIENCE

Instructor

- Calculus 2, Spring 2011

Teaching Assistant

- Calculus 1, Fall 2007
- Calculus 2, Spring 2008
- Multivariable calculus, Fall 2008
- Differential equations, Spring 2010

AWARDS

- AMS travel award to attend sectional meeting in Cornell, Ithaca in September 2011.
- Research Assistantship, Rutgers Spring 2009, Spring 2010, Fall 2010, Fall 2011.
- Weill Fellowship, Summer 2007.
- Teaching Assitanship, Rutgers 2006-11.

CONFERENCES ATTENDED

- Talbot Workshop (Non-Abelian Hodge Theory), Draper, Utah, May 2011
- Graduate symplectic field theory workshop, Raymond, Maine, September 2010
- Symplectic and Contact Topology and Dynamics: Puzzles and Horizons, MSRI Berkeley, March 2010
- Symplectic Geometry Graduate Summer Workshop, MSRI Berkeley, August 2009
- Workshop on Equivariant Gromov-Witten theory and symplectic vortices, CIRM, Luminy, France, July 2009

PAPERS

- S. Venugopalan. Yang-Mills heat flow on gauged-holomorphic maps. (arXiv:1201.1933 [math.DG]).
- A. Tripathi, S. Venugopalan, D. B. West. A short constructive proof of the Erdős-Gallai characterization of graphic lists, Discrete Math. 310 (2010), no. 4, 843844.