Takashi Kimura

Curriculum Vitae
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Education

1990 **Ph.D., Physics**, *State University of New York*, Stony Brook, New York.

1984 **B.S., Physics**, *California Institute of Technology*, Pasadena, California.

Experience

Positions

7/2011-6/2012 **Director of Graduate Studies**, *Department of Mathematics and Statistics*, Boston University, Boston, Massachusetts.

9/2009 – Present **Professor**.
Department of Mathematics and Statistics, Boston University; Boston, Massachusetts

9/2001 – 8/2009 **Associate Professor**.
Department of Mathematics and Statistics, Boston University; Boston, Massachusetts

9/1995 – 8/2001 **Assistant Professor**.
Department of Mathematics and Statistics, Boston University; Boston Massachusetts

9/1993 – 8/1995 **National Science Foundation Postdoctoral Fellow**.
Department of Mathematics; University of North Carolina; Chapel Hill, North Carolina

9/1992 – 8/1993 **National Science Foundation Postdoctoral Fellow**.
Department of Mathematics; University of Pennsylvania; Philadelphia, Pennsylvania

9/1990 – 8/1992 **Lecturer**.
Department of Mathematics; University of Texas; Austin, Texas

Short Term Positions

9/1/2002 – 6/30/2003 **Member**, *On leave from Boston University*.
School of Mathematics; Institute for Advanced Study; Princeton, New Jersey

9/1/1996 – 9/1/1997 **Visiting Professor**, *On leave from Boston University*.
Max Planck Institut für Mathematik; Bonn, Germany

Multiple visits **Visitor**, *Institut des Hautes Études Scientifiques*, Bures-sur-Yvette, France.
6/1/1996–8/31/1996, 7/1/2003–8/31/2003, 6/15/2004–8/15/2004, 7/5/2006–8/5/2006, 7/20/2009-8/20/2009.

Grant Support

2/3/2010 – 2/2/2012 **National Security Agency Grant**, *Group Actions, Orbicurves, and Topological Field Theory*, with co-PI Jarvis.

9/2006 – 8/2009 **National Science Foundation Grant DMS-0605172**, *Collaborative Research: Stringy Invariants, Orbicurves, and Topological Field Theory*, with co-PI Jarvis.

9/2002 – 7/2003 **Supported by the Institute for Advanced Study under *National Science Foundation Grant* DMS-9729992**.

7/2002 – 6/2005 **National Science Foundation Grant DMS-0204824**, *Orbifolds, Higher Spin Curves, and Algebraic Structures*.

8/1998 – 7/2001 **National Science Foundation Grant DMS-9803427**, *Moduli Spaces: Their Topology and Representations*.

Various 9/1998-8/2013 **Project Director (9/1999-8/2008, 9/2009-8/2013)**, *Graduate Assistance in Areas of National Need (GAANN) Grant*, U.S. Department of Education.

Selected Publications

- *Logarithmic trace and orbifold products*, with D. Edidin, T. Jarvis, *Duke Mathematical Journal* **153** No. 3 (2010), 427 – 473.
- *Stringy K-theory and the Chern character*, with R. Kaufmann, T. Jarvis, *Inventiones Mathematicae* **168** (2007) 23–81, `arxiv.math/0502280`.
- *A genus-3 topological recursion relation*, with X. Liu, *Communications in Mathematical Physics* **262** (2006), 645–661, `math.DG/0502457`.
- *Pointed admissible G-covers and G-equivariant cohomological field theories*, with R. Kaufmann, T. Jarvis, *Compositio Mathematica* **141** (2005), no. 4, 926–978, `math.AG/0302316`.
- *Moduli spaces of higher spin curves and integrable hierarchies,* with T. Jarvis and A. Vaintrob, *Compositio Math* **126** (2001) 157–212, `math.AG/9905034`.
- *On the operad structures of moduli spaces and string theory*, `hep-th/9307114`, *Communications in Mathematical Physics* **171** (1995) 1–25, with J. Stasheff and A. A. Voronov.

Graduate Students

Ross Sweet, *Ph.D. 2013* , Thesis title: Equivariant topological field theories and G-Extended Frobenius algebras; Position in Fall 2013: Postdoc; Dept. of Math., Northwestern University..

Tomoo Matsumura, *Ph.D. 2007*, Thesis title: Orbifold cohomology of symmetric product orbifolds; Current Position: Postdoc; Dept. of Math., Korea Advanced Institute of Science and Technology (KAIST); Daedeok Science Town, South Korea.

Rafael Diaz, *Ph.D. 2007*, Thesis title: Deformation quantization of the moduli space of flat connections; Current Position: Professor; Instituto de Matematicas y sus Aplicaciones, Universidad Sergio Arboleda; Bogota, Colombia.

Selected Lecture Series

Stringy algebraic structures on orbifolds, I and II, *2007 Workshop on Algebraic geometry and physics: Recent trends in mirror symmetry*, Korean Institute for Advanced Study, Seoul, Korea; June 2007.

Equivariant topological quantum field theories and stringy invariants of orbifolds, I, II, and III, *Pathways Lecture Series in Mathematics*, Department of Mathematics; Keio University, Yokohama, Japan; January 2007.