

Travis Waddington

Department of Mathematics
Stony Brook University
Stony Brook, NY, 11794-3651
ratatosk@math.sunysb.edu
(214)850-9795

<http://www.math.sunysb.edu/~ratatosk>

United States Citizen

Education

Stony Brook University, Stony Brook, NY, 2003–present

Ph.D. in Mathematics, expected May 2010

Advisor: Mikhail Lyubich

Thesis: *Dense horospheres and recurrent points in Lyubich-Minsky laminations*

California Institute of Technology Pasadena, CA, 1997–2002

B.S. Summa Cum Laude in Mathematics, May 2002

Research Interests

Holomorphic dynamics

Topological and measure-theoretic classification of discrete dynamical systems

Hyperbolic geometry and 3-manifolds

Dynamical laminations and foliations

Quasiconformal geometry

Application of thermodynamical formalism to dynamics

Publications and Preprints

Horospherical density over recurrent points in Lyubich-Minsky laminations, T. Waddington, in preparation

Teaching Experience

Teaching Assistant, Stony Brook University Mathematics Department, 2003-present

Lecturer for the following courses:

Logic, Language, and Proof (Fall 2006)
Calculus II (Fall 2005)
Calculus B (Fall 2007, Summer 2008, Summer 2007)
Calculus A (Spring 2008, Spring 2007)
Introduction to Calculus (Summer 2009)
Proficiency Algebra (Spring 2009)

Teaching Assistant for the following courses:

Applied Algebra (Spring 2005)
Logic, Language, and Proof (Spring 2004)
Calculus III with Applications (Fall 2004)
Calculus II (Fall 2003)
Calculus A (Spring 2004)
Mathematical Thinking (Fall 2008, Fall 2009)

Grader for the following courses:

Applied Algebra (Spring 2005)
Logic, Language, and Proof (Fall 2006)

Private Tutor, Los Angeles and San Jose, CA, 2000–2003

Tutored and mentored a wide variety of students including elementary school students, high school students, college undergraduates, and future math teachers, in subjects ranging from basic arithmetic to projective geometry and point-set topology.

Talks Given

Ahlfors' 5-Islands Theorem

Graduate Seminar, Stony Brook University, February 2009

Sullivan's No Wandering Domains Theorem

Graduate Dynamics Seminar, Stony Brook University, November 2007

A Complete Classification of Dynamics on Hyperbolic Surfaces

Graduate Seminar, Stony Brook University, March 2007

Mostow's Rigidity Theorem

Graduate Dynamics Seminar, Stony Brook University, October 2006

Mostow's Rigidity Theorem

Graduate Seminar, Stony Brook University, October 2005

Conferences and Summer Schools Attended

Ecole d'été: uniformisation de familles de variétés complexes

Institut de Mathématiques de Bourgogne, Dijon, France, September 2009

Advances in Low Dimensional Dynamics

Stony Brook University, Stony Brook, NY, June 2009

Seventh Joint International Meeting of the AMS and the Sociedad Matemática Mexicana

Universidad Autónoma de Zacatecas, Zacatecas, Mexico, January 2009

Hyperbolic Geometry Workshop

The Fields Institute for Research in Mathematical Sciences, Toronto, Canada, May 2006

Holomorphic Dynamics Workshop in Celebration of John Milnor's 75th Birthday

The Fields Institute for Research in Mathematical Sciences, Toronto, Canada, March 2006

Partially Hyperbolic Dynamics, Laminations, and Teichmüller Flow Workshop

The Fields Institute for Research in Mathematical Sciences, Toronto, Canada, January 2006

Thematic Program in Holomorphic Dynamics, Laminations, and Hyperbolic Geometry

The Fields Institute for Research in Mathematical Sciences, Toronto, Canada, Spring 2006

Clay Math Institute Summer School: Ricci Flow, 3 Manifolds and Geometry

Mathematical Sciences Research Institute, Berkeley, CA, June–July 2005

3-Manifolds and Knot Theory Conference in Honor of the 60th Birthday of Cameron Gordon

University of Texas, Austin, TX, May 2005