

VAIBHAV GADRE

Personal Details:

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Education:

Caltech: Ph.D in Mathematics, 2010. (*Advisor: Nathan Dunfield*)

IIT Mumbai: B.Tech in Engineering Physics, 2001.

Appointments:

Benjamin Peirce Assistant Professor of Mathematics, Harvard University, July 2010-June 2013.

Research Interests:

Dynamics of Non-classical Exchanges, Teichmüller Theory, Harmonic Measures for Random Walks on Groups, Mapping class groups.

Publications:

- (1) *Dynamics of non-classical interval exchanges*, (2009), <http://arxiv.org/abs/0906.2563>, 37 pages, submitted to Ergodic Theory Dynam. Systems.
- (2) *Harmonic measures for distributions with finite support on the mapping class group are singular*, (2009), <http://arxiv.org/abs/0911.2891>, 44 pages, submitted to Ann. of Math.
- (3) *Minimal pseudo-Anosov translation lengths on the complex of curves*, preprint, joint with Chia-yen Tsai, (2010), 11 pages.

Awards:

NSF Graduate Research Assistant, UIUC, (2007-2009), *PI: Nathan Dunfield*.

Graduate Teaching Award, Department of Mathematics, Brandeis University (2002).

Talks:

- (1) Basic Notions Seminar, Harvard University (2010).
- (2) Geometric Group Theory and Topology Seminar, Tufts University (2010).
- (3) CUNY Geometry and Topology Seminar, CUNY Graduate Center (2010).
- (4) Dynamics and Geometry Seminar, Harvard University (2010).
- (5) Workshop titled “Subgroups of the Mapping Class Group”, HIM, Bonn, (2010).
- (6) Special Session “Hyperbolic Geometry and Teichmüller Theory”, AMS meeting, UIUC (2009).
- (7) International Workshop and Conference on Mapping Class Groups and Related Topics, Northeastern Hill University, Shillong, India (2008).

Conferences and Workshops:

2010

Conference on Conformal Dynamics and Hyperbolic Geometry, CUNY.
Geometry and Analysis of Riemann Surfaces and their Moduli, Univ. of Maryland, College Park.
Trimester Program on Geometry and Dynamics of Teichmüller Spaces, HIM, Bonn.

2009

FRG conference: Geometry and Dynamics in Surfaces and 3-manifolds, Park City, Utah.
CIRM: School and Conference on Dynamics and Geometry of Teichmüller Space, Luminy.
AMS: Special Session on Hyperbolic Geometry and Teichmüller Theory, UIUC.

Teaching Experience:

Instructor: Calculus I and II for 4 semesters, Multi-variable Calculus, Linear Algebra.

Teaching Assistant:

undergraduate: Calculus, Differential Equations, Probability, Algebra, Dynamics and Chaos.

graduate: Differentiable manifolds I and II, Algebraic Topology.

References:

Nathan Dunfield (Ph.D advisor)
Dept. of Mathematics,
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Dept. of Mathematics,
University of Illinois,
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Steve Kerckhoff
Dept. of Mathematics,
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Joseph Maher
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