

Curriculum Vitae

Maryam Mirzakhani

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General Information **Citizenship:** Iranian

Education **Harvard University**, Cambridge, Massachusetts.
Ph.D. in Mathematics: Spring 2004.
Thesis Advisor: Curtis T. McMullen.

Sharif University of Technology, Tehran, Iran.
B.S. in Mathematics, 1999.

Employment Assistant Professor of Mathematics, Princeton University
Clay research fellow 2004-2008

Papers/ Publications Growth of the number of simple closed geodesics on hyperbolic surfaces. Accepted/ To appear in Annals of Mathematics.
Weil-Petersson volumes and the Witten-Kontsevich formula. Accepted/ To appear in Journal of American Mathematical Society.
Simple geodesics and the Weil-Petersson of Moduli spaces of bordered Riemann surfaces. Accepted/ To appear in *Inventiones Mathematicae*.
Ergodic theory of the earthquake flow. Preprint
Random Riemann surfaces and equidistribution of horospheres, To appear in Proceedings of the Ahlfors-Bers Colloquium
(With J. Athreya, A. Bufetov and A. Eskin) Lattice point asymptotics and volume growth on Teichmüller space Preprint
Equidistribution results for moduli spaces of quadratic differentials and train tracks. In preparation
A simple proof of a theorem of Schur. *Amer. Math. Monthly* **105** (1998), no. 3, 260–262.
A small non-4-choosable planar graph. *Bull. Inst. Combin. Appl.* **17** (1996), 15–18.
Decomposition of complete tripartite graphs into 5-cycles. In *combinatorics advances*, pages 235-241. Math. Appl., Kluwer Acad. Publ., Dordrecht, 1995.
Elementary number theory, challenging problems (Farsi), Roya Beheshti, Maryam Mirzakhani, Fatemi Publishers, Tehran, Iran, 1999.

Invited lecture series Abraham Robinson Memorial lectures, Yale University
Salomon Bochner Lectures, Rice University

Recent

Invited talks 3-manifold Topology in Honor of Peter Shalens 60th Birthday
, CRM, Montreal, June 2006.
Geometry Seminar, University of Chicago
Spring 2006
Gauge theory and Topology seminar, Harvard University
Spring 2006
Topology seminar, Yale University Winter 2005
Plenary Speaker, Ahlfors Bers Colloquium
Spring 2005
Algebraic geometry seminar Columbia University,
Spring 2005
Caltech Mathematics Colloquium,
Spring 2005
University of Maryland Mathematics Colloquium,
Spring 2005
Algebraic Geomtry Seminar, University of Michigan Ann Arbor
Spring 2005
Stanford Topology Seminar
Spring 2005

**Awards /
Honors**

Clay research fellowship
2004-2008
Harvard Junior Fellowship
Society of fellows, Harvard University, 2003(declined).
Merit fellowship
Harvard University, 2003.
International Mathematical olympiad (Canada 1995)
Gold medal.
International Mathematical Olympiad (Hong Kong 1994)
Gold medal.

Service

Referee for: Duke Mathematical Journal/ Journal of Differential Geometry/ Mathematical
Research letters/ United States Israel binational scientific foundation
Organizer for: Teichmuller Theory and Kleinian Groups August 20, 2007 to December 14, 2007
Mathematical Sciences Research Institute, Berkeley, CA.