Tina Torkaman

torkaman@math.harvard.edu

Education

Sep 2017 – Present	**Harvard University**, Cambridge, MA **Ph.D.** *in Mathematics Advisor: Curtis McMullen*
Sep 2013 – 2017	**Sharif University of Technology**, Tehran, Iran **B.SC.** *in Mathematics*

Research Interest

Hyperbolic surfaces, $Teichmüller$ theory, ergodic theory, dynamics and geometry of moduli space

Leadership and Teaching Experience

Teaching Fellow at Harvard University
- *Math 21a Multivariable Calculus, Spring 2021 (entirely remotely)*
- *Math 21a Multivariable Calculus, Fall 2019*

Teaching Assistant at Harvard University
- *Math 21a Multivariable Calculus, Spring 2019*

Mentor
- Direct Reading Program on Ergodic Theory, Harvard, Fall 2020 (entirely remotely)

Teaching Assistant at Sharif University of Technology
- *Graph Theory, Fall 2015*
- *Linear Algebra, Spring 2015*

Teaching Olympiad Classes
- *Preparing students for participating in IMO (International math Olympiad) and IOI (International Olympiad in Informatics), 2013-2015*

Honors and Awards

Raphaël and Daniel Salem Fellowship, *2019-2020*
Harvard Bok Center Certificate of Distinction in Teaching, Fall 2019
Mirzakhani Scholarship, Iranian summit at Harvard, Spring 2019
Gold Medal in IMC (International Mathematical Competiton), Bulgaria, 2015
Gold Medal in IMS (Iranian Mathematical Society Competition), 2015
Silver Medal in IMO (International Mathematical Olympiad), Colombia, 2013
Gold Medal in National Mathematical Olympiad, 2012
Bronze Medal in National Olympiad in Informatics, 2011.

Publications

- **Train Track, Entropy, and the halo of a measure lamination** (with Yongquan)
  submitted, 2021, arXiv:2105.00370

Talks and Presentations

Informal Geometry and Dynamic Seminar
 Level sets of length function in moduli space, Harvard, Fall 2019
Trivial Notion Seminar
 Automorphisms of Riemann Surfaces, Harvard, Fall 2018
Undergraduate Research and Experiential Learning
 Critical Exponent of Graphs, Poster Presentation, Delaware, United State, Summer 2016
Conference on Algebraic Combinatorics and Graph Theory
 Tree Decomposition of Graphs, Iran, Fall 2015.

Programs Attended

ST Yau 70th Birthday-Conference on Differential Geometry
 Calabi-Yau Theory and General Relativity, Harvard, Spring 2019

Houston Summer School on Dynamical Systems
 University of Houston, Summer 2019
Graduate School on Geometry of Teichmuller Spaces
 Simons Center, Spring 2019
Summer School on Teichmüller Dynamics, Mapping Class Groups and Applications
 Organized by Fourier Institute, Grenoble, France, Summer 2018
Dynamical, Arithmetical and Algebraic Aspects of Tilings
 Oleron, France, Spring 2016
Advanced School on Geometric Group Theory and Low-Dimensional Topology
 Organized by ICTP (Internationl Center for Theoritical Phisycs) in Trieste, Italy, Spring 2016
Summer School on Tilings and Tesselations
 Organized by CIMPA (International Centre for Pure and Applied Mathematics), Iran, Summer 2015