

Yankı Lekili

- CONTACT INFORMATION** Department of Mathematics Phone: (617) 301-2193
Massachusetts Institute of Technology Email: lekili@math.mit.edu
77 Massachusetts Avenue
Cambridge, MA 02139
- PERSONAL** Born October, 1983 in Gaziantep, Turkey. Citizenship: Turkish.
- EDUCATION** Massachusetts Institute of Technology 2005 - 2009
Ph.D. Mathematics
• Dissertation Topic: *Broken Lefschetz fibrations, Lagrangian matching invariants and Ozsváth-Szabó invariants*
• Advisor: Denis Auroux
École Normale Supérieure de Lyon 2004 - 2005
Maîtrise, Pure Mathematics. Mention Bien.
University of California, Berkeley 2003 - 2004
Education abroad exchange student.
Bilkent University 2001 - 2004
B.A. in Mathematics.
- APPOINTMENTS** 2009 - 2010 MSRI Postdoctoral Fellow, Symplectic and Contact Geometry and Topology.
2010 - Herchel Smith Postdoctoral Research Fellow and Junior Research Fellow of King's College, University of Cambridge.
- RESEARCH INTERESTS** Symplectic topology, Gauge theory, Low-dimensional topology.
- ACADEMIC HONORS** Charles and Jennifer Johnson Prize, MIT departmental award (best paper submitted by a graduate student), 2009.
MIT, Presidential Fellowship, 2006.
MIT, Norman Levinson Fellowship, 2005.
ENS de Lyon, Bourse internationale, 2004.
University of California, Berkeley, Dean's Honor List, 2003.
Bilkent University, Full scholarship for high achievement in nationwide University Entrance Exam, 2001.
- PUBLICATIONS** Wrinkled fibrations on near-symplectic manifolds.
Geomety & Topology 13 (2009) 277–318. *arXiv:0712.2202*.
Heegaard Floer homology of broken fibrations over the circle.
Submitted. *arXiv:0903.1773*.
Examples of planar tight contact structures with support norm one (with T. Egtü).
arXiv:0911.0470.
Lagrangian correspondences and three-manifold invariants, in preparation (with T. Perutz).

INVITED TALKS

- February 2008, Geometry Seminar, MIT, Cambridge (MA)
Wrinkled fibrations on near-symplectic manifolds
- April 2008, Symplectic Geometry Seminar, Columbia University, New York (NY)
Wrinkled fibrations on near-symplectic manifolds
- May 2008, Gökova Geometry/Topology Conference, Gökova (Turkey)
Wrinkled fibrations on near-symplectic manifolds
- Nov 2008, Indiana-Illinois Symplectic Geometry Conference, Notre Dame Univ., Notre Dame (IN)
Wrinkled fibrations on near-symplectic manifolds
- Nov 2008, Geometry/Topology Seminar, USC, Los Angeles (CA)
Broken Lefschetz fibrations and Floer theoretical invariants
- Dec 2008, Geometry Topology Seminar, GaTech, Atlanta (GA)
Broken Lefschetz fibrations and Floer theoretical invariants
- Jan 2009, Symplectic Geometry Seminar, Columbia University, New York (NY)
Heegaard Floer homology of broken fibrations
- Mar 2009, Interactions of geometry and topology in low dimension, Banff (Canada)
Heegaard Floer homology of broken fibrations
- May 2009, Georgia International Topology Conference, Athens (GA)
Heegaard Floer homology of broken fibrations
- June 2009, Geometry Topology Seminar, Koç University, Istanbul (Turkey)
Heegaard Floer homology of broken fibrations
- Sep 2009, Symplectic Geometry Seminar, MSRI, Berkeley (CA) (2 lectures)
Lagrangian matching invariants and Heegaard Floer homology

My work was also mentioned in:

June 2008, *Broken Lefschetz fibrations for all smooth oriented 4-manifolds*, talk by Robion Kirby at MSRI Hot Topics: Contact structures, dynamics and the Seiberg-Witten equations in dimension 3.

August 2008, *Broken Lefschetz fibrations on smooth 4-manifolds*, talk by Denis Auroux at MSRI Low-dimensional topology conference.

TEACHING
EXPERIENCE

Lecturer, Single variable calculus (18.01), Winter 2009, MIT.
 Teaching Assistant/Recitation Instructor, Linear Algebra, Fall 2007, MIT.
 Research advisor, Summer 2006, RSI, MIT. Subject: Enumerative Tropical Geometry.

Students:

Ping Fung Ng (received one of the top ten commendations for his research at MIT).
 Yasin Razlik

Teaching Assistant, Algebraic Geometry, Fall 2006, MIT.