Faramarz Vafaee
CURRICULUM VITAE

ADDRESS: Department of Mathematics   Phone: (517) 899-0677
            Michigan State University   Office Phone: (517) 884-1483
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            East Lansing, MI 48824

RESEARCH INTERESTS:

Low-Dimensional Topology and Geometry, Knot Theory, Heegaard Floer Homology.

EDUCATION:

Michigan State University, East Lansing, 2008-2014
- Ph.D., Mathematics, expected May 2014.
  Advisor: Matthew Hedden.

University of Tehran, Tehran, Iran, 2006-2008
- M.S., Mathematics, June 2008.

Sharif University of Technology, Tehran, Iran, 2001-2006
- B.S., Pure Mathematics, August 2006.

PERSONAL: Iranian citizen. Born September 20th, 1984.

PUBLICATIONS:

- *Berge-Gabai knots and L-space satellite operations*,
  with Jennifer Hom and Tye Lidman, In preparation.
- *On the knot Floer homology of twisted torus knots*, (2013),
  arXiv:1311.3711v1, Submitted to Int. Math. Res. Not. IMRN.
- *Seifert surfaces distinguished by sutured Floer homology
  but not its Euler characteristic*, (2012), arXiv:1204.2452v1.
  Accepted with revisions in Topology and its Applications.

TEACHING:

Michigan State University
- Graduate Algebra I, Grader, Fall 2013.
- Calculus I, Instructor of Record, Spring 2013, Fall 2012.
- Advanced Track Linear Algebra, Recitation Instructor, Spring 2012.
- Graduate Geometry/Topology, Recitation Instructor, Spring 2012.
- Survey of Applied Calculus I, Instructor of Record, Spring 2011, Fall 2010,
  Summer 2010, Spring 2010, Fall 2009.
- Calculus IV, Recitation Instructor, Spring 2009.

University of Tehran
- Linear Algebra, Recitation Instructor, Fall 2007.
- Abstract Algebra II, Recitation Instructor, Fall 2006.

Faramarz Vafaee
CURRICULUM VITAE 2

INVITED TALKS:

- *On the knot Floer homology of twisted torus knots*,
  Michigan State University, Topology Seminar, September 2013.
- *Heegaard Floer homology and L-space knots*,
  Short Talks, Graduate Workshop on Topology and Invariants of 4-manifolds,
  University of Minnesota, August 2013.
- *Seifert surfaces distinguished by sutured Floer homology*,
  Geometry Seminar, University of Virginia, October 2012.
- *Sutured Floer homology and Seifert surfaces*,
  Tenth Annual Graduate Student Topology and Geometry Conference,
  Indiana University, April 2012.

SELECT TALKS GIVEN IN THE MICHIGAN STATE UNIVERSITY GRADUATE SEMINAR:

- *Berge-Gabai knots and L-space satellite operations*, September 2013.
- *Heegaard Floer homology of branched double covers*, February 2013.
- *Cosmetic surgery on knots*, September 2012.
- *A quick glance at combinatorial torsions*, February 2012.

AWARD:

- Michigan State University College of Natural Science
  Dissertation Completion Fellowship, Spring 2014.

SELECT CONFERENCES AND WORKSHOPS ATTENDED:

- *Tech Topology Conference*,
  Georgia Institute of Technology, December 2013.
- *Graduate Student Topology/Geometry Conference*,
  University of Notre Dame, April 2013.
- *Midwest Topology Conference*,
  Michigan State University, October 2012.
- *Workshop on Holomorphic Curves and Low Dimensional Topology*,
  Stanford University, August 2012.
- *Graduate Student Topology/Geometry Conference*,
  Michigan State University, April 2011.

SERVICE:

- Organizer of the Michigan State University Graduate Student
  Geometry/Topology Seminar, Fall 2013 - Spring 2014.