

ELENA PAVELESCU

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Research Interests

Low dimensional topology
Contact geometry

Academic Degrees

University of Pennsylvania, Philadelphia, Ph.D. in Mathematics May 2008
Thesis: Braids and Open Book Decompositions
Thesis advisor: Dr. John Etnyre
University of Bucharest, Romania, B.A. in Mathematics June 2003

Professional Positions Held

G.C. Evans Instructor July 2008 - present
Rice University - MS 136
6100 Main Street, Houston, 77005 TX

Teaching Assistant August 2003 - May 2008
University of Pennsylvania -Mathematics
209 S 33rd Street, Philadelphia, 19104 PA

Awards and Fellowships

AWM-NSF Travel Grant for Conference Travel, Spring 2009
2008 Deans Award for Distinguished Teaching by Graduate Students, University of Pennsylvania, 2008
Benjamin Franklin Fellowship, University of Pennsylvania, 2003-04, 2006-07
Moez Alimohamed Graduate Student Teaching Award for the 2005-06 academic year
Good Teaching Award for Math 240 (Calculus III), University of Pennsylvania, Fall 2005
Good Teaching Award for Math 114 (Calculus II), University of Pennsylvania, Spring 2005

Publications and Preprints

E. Pavelescu *Braiding Knots in Contact 3-Manifolds*, arxiv.org/abs/0902.3715
K. Kawamuro, E. Pavelescu *The Self-Linking Number in Annulus and Pants Open Book Decompositions*, arxiv.org/abs/0901.0414

Talks and Presentations

The Self-linking Number in Annulus and Pants Open Book Decompositions, Connections for Women: Symplectic and Contact Geometry and Topology, MRSI, August 4-5 2009

The Self-linking Number in Annulus Open Book Decompositions, AMS 2009 Spring Southeastern Sectional Meeting, NCSU, Raleigh, NC, April 4-5 2009

Braids and Open Book Decompositions, Topology Seminar, Rice University, September 2008

Contact structures on 3-manifolds are deformations of foliations-after J.Etnyre, Topology Working Seminar, Rice University, October 2008

Braids and Open Book Decompositions, AMS 2008 Spring Southeastern Meeting, Baton Rouge, LA, March 28-30, 2008

On the Transversal Simplicity of the Unknot, PACT Seminar, Bryn Mawr College, November 2007

On the Transversal Simplicity of the Unknot, Graduate Student Geometry - Topology Seminar, University of Pennsylvania, October 2007

The Kauffman Bound on the Bennequin Number - after Rutherford, Geometry-Topology Reading Seminar, Georgia Institute of Technology, December 2006 (2 talks)

From Taut to Tight - Foliations into Contact Structures, Graduate Student Geometry - Topology Seminar, University of Pennsylvania, August 2006 (1st part of a joint talk)

The Kauffman Bound on the Bennequin Number - after Rutherford, PACT Seminar, Bryn Mawr College, April 2006

Polynomial Knot Invariants, Graduate Student General Seminar, University of Pennsylvania, February 2006

The Topology of Symplectic Manifolds - after Gompf, Graduate Student Geometry - Topology Seminar, University of Pennsylvania, March 2005 (2 talks)

Legendrian Links of Topological Unknots, Graduate Student Geometry - Topology Seminar, University of Pennsylvania, November 2005 (2 talks)

On a Theorem of Jordan, First Year Graduate Student Seminar, University of Pennsylvania, February 2004

Introduction to K-Theory, Graduate Student Algebra Seminar, University of Pennsylvania, October 2003

Conferences and Workshops Attended

Connections for Women: Symplectic and Contact Geometry and Topology, MRSI, August 4-5 2009

Georgia International Topology Conference, University of Georgia, Athens, GA, May 18-29, 2009,

AMS 2009 Spring Southeastern Sectional Meeting, NCSU, Raleigh, NC, April 4-5 2009

AMS 2008 Spring Southeastern Meeting, Baton Rouge, LA, March 28-30, 2008
Joint Mathematical Meetings, San Diego, CA, January 6-9, 2008
Georgia Topology Conference, University of Georgia, Athens, GA, May 14-18, 2007
PCMI Summer School on Low Dimensional Topology, Park City, UT, June-July 2006
Symplectic Field Theory Conference, Bryn Mawr College, Bryn Mawr, PA, March 2006
Geometry Festival, University of Pennsylvania, Philadelphia, PA, April 2006

Teaching Experience

Rice University

Instructor, Math 111 (The Fundamental Theorem of Calculus), Fall 2008
Math 102 (Single Variable Calculus II), Spring 2009
Math 366 (Geometry), Spring 2009
Math 101 (Single Variable Calculus I), Fall 2009
Math 355 (Linear Algebra), Fall 2009

University of Pennsylvania

Teaching Assistant, 2003-2008: Math 114 (Calculus II), Math 170 (Ideas in Mathematics), Math 240 (Calculus III), Math 114 (Calculus II), Math 104 (Calculus I)
Master TA in the Department of Mathematics TA Training Program, 2005-2008
Coordinator of *Calculus Reviews*, *Math & Maple Centers* and *On-line Help* sessions, Fall 2004-2008
Grader for Math 350 (Introduction to Number Theory), Fall 2005
Instructor for Math 104 (Calculus I), Summer 2005

References

John Etnyre, Associate Professor of Mathematics, Georgia Institute of Technology
E-mail: etnyre@math.gatech.edu, *Phone*: 404-385-6760
Herman Gluck, Professor of Mathematics, University of Pennsylvania
E-mail: gluck@math.upenn.edu, *Phone*: 215-898-8470
Paul Melvin, Professor of Mathematics, Bryn Mawr College
E-mail: pmelvin@brynmawr.edu, *Phone*: 610-526-5353