

CURRICULUM VITAE

SHARI ULTMAN

Contact Information

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Education

Oregon State University: Ph.D., Mathematics, 2009.
Oregon State University: M.S., Mathematics, 2005.
University of Massachusetts: B.A., Theater, 1991.

Employment History

Visiting Assistant Professor, Boise State University
January 2010 – May 2013.
Adjunct Faculty, Boise State University
August 2009 – December 2009.
Graduate Teaching Assistant, Oregon State University
September 2003 - March 2009.

Teaching

DEPARTMENT OF MATHEMATICS, BOISE STATE UNIVERSITY:

Spring 2013: Math 275 (Calculus III).
Fall 2012: Math 275 (Calculus III).
Spring 2012: Math 275 (Calculus III).
Fall 2011: Math 275 (Calculus III); Math 333 (Differential Equations).
Summer 2011: Math 333 (Differential Equations).

Spring 2011: Math 275 (Calculus III); Math 360 (Statistics).

Fall 2010: Math 275 (Calculus III); Math 333 (Differential Equations).

Summer 2010: Math 333 (Differential Equations).

Spring 2010: Math 275 (Calculus III); Math 360 (Statistics).

Fall 2009: Math 175 (Calculus II); Math 333 (Differential Equations).

DEPARTMENT OF MATHEMATICS, OREGON STATE UNIVERSITY:

September 2003 – March 2009: Graduate Teaching Assistant for a wide variety of courses, including: Elementary functions (trigonometry); Calculus for management and social science; Elements of discrete mathematics; Differential, Integral and Multivariable calculus; and Applied differential equations.

In addition to routine teaching assignments, I participated in two special projects:

- The Vector Calculus Bridge Project: Fall 2006 – Spring 2007
Developed by Tevian Dray and Corinne A. Manogue, this is an approach to teaching vector calculus emphasizing geometry, symmetry and physical context. More details regarding this project can be found at <http://math.oregonstate.edu/bridge/>
- Math Excel: Fall 2005, Spring 2006
Modeled on Uri Treisman's Emerging Scholars Program, *Math Excel* is an optional workshop associated with Algebra, Pre-calculus, and Calculus courses. Students meet twice a week to work in small groups on worksheets written by the GTAs. These worksheets are meant to challenge students beyond regular coursework, and are engaged in with minimal intervention on the part of the GTAs. The goal is to strengthen students' problem-solving skills through peer-based learning.

Service

BOISE STATE UNIVERSITY:

Fall 2012 – Spring 2013: STEP Calculus Working Group.

Summer 2011: Disciplinary Lens Course Design Institute.

Spring 2011: Calculus Committee.

Fall 2010: Calculus Committee.

Research Interests

Algebraic, geometric and differential topology.

Publications

Topological structure of candidates for positive curvature. Topology Appl. 158 (2011), no. 1, 38–51 (with Christine M. Escher)

The cohomology rings of seven dimensional primitive cohomogeneity one manifolds. Ph. D. Thesis, Oregon State University, 2009

Talks

The conjugacy problem in Artin's braid group. Algebra, Geometry and Cryptology Seminar; Boise State University, September 2010.

The conjugacy problem in braid groups: summit and super summit sets. Cryptology Seminar; Boise State University, April 2010.

Cohomology rings of certain seven dimensional manifolds. Topology seminar; Oregon State University, November 2008.

Cohomogeneity one manifolds; the double-disk construction and cohomology (Part II). Topology seminar; Oregon State University, January 2007.

Cohomogeneity one manifolds; the double-disk construction and cohomology (Part I). Topology seminar; Oregon State University, November 2007.

Conferences and Workshops

CASCADE TOPOLOGY SEMINAR, FALL 2008 MEETING. Portland State University; Portland, Oregon, November 2008

PACIFIC NORTHWEST GEOMETRY SEMINAR, 2008 FALL MEETING. Oregon State University; Corvallis, Oregon, October 2008.

25th ANNUAL WORKSHOP IN GEOMETRIC TOPOLOGY. Brigham Young University; Park City, Utah, June 2008.

Funded participant.

WORKSHOP IN GLOBAL RIEMANNIAN GEOMETRY. IMUNAM; Cuernavaca, Mexico, May 2008.

Invited and funded participant.

CASCADE TOPOLOGY SEMINAR, FALL 2007 MEETING. Boise State University; Boise, Idaho, October 2007

MANIFOLDS WITH NONNEGATIVE SECTIONAL CURVATURE. American Institute of Mathematics; Palo Alto, California, September 2007.

Invited and funded participant.

23rd ANNUAL WORKSHOP IN GEOMETRIC TOPOLOGY. Oregon State University; Corvallis, Oregon, June 2006.

PACIFIC NORTHWEST GEOMETRY SEMINAR, 2005 FALL MEETING. Oregon State University; Corvallis, Oregon, November 2005.

CASCADE TOPOLOGY SEMINAR, FALL 2004 MEETING. Oregon State University; Corvallis, Oregon, November 2004

Awards

Graduate Academic Achievement Award, 2009

Department of Mathematics, Oregon State University.

William F. Burger Graduate Teaching Award, 2007

Department of Mathematics, Oregon State University.

Joel Davis Award, 2003

Department of Mathematics, Oregon State University.

CRC Press Freshman Chemistry Achievement Award, 2001

Department of Chemistry, Oregon State University.

References

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