

Brandy Guntel

RESEARCH INTERESTS	Exceptional Dehn Surgeries, Knot Theory, 3-manifolds
EDUCATION	The University of Texas at Austin, 2004 - 2011 Ph.D, Mathematics Advisor: Dr. Cameron Gordon Indiana University, Bloomington, 2000-2004 B.S., Mathematics with Honors, Minor in German B.A., Physics
PUBLICATIONS	B. Guntel, <i>Fibered and primitive/Seifert twisted torus knots</i> , submitted for publication, http://arxiv.org/abs/1111.1696 B. Guntel, <i>Knots with distinct primitive/primitive and primitive/Seifert representatives</i> , J. Knot Theory Ramifications, Vol. 21 Issue 1, 2012. http://arxiv.org/abs/0909.0476 Johnson, C.I.; Sneden, C.; Pilachowski, C. A.; Kraft, R. P.; Ivans, I. I; Guntel, B. (2005) A Large Sample Sodium and Magnesium Abundance Study in the Globular Cluster M3 (NGC5272), ASPC, 336, 331
AWARDS	UT Math Outstanding Teaching Award: Fall 2010 Frank E. Gerth III Teaching Excellence Award: Fall 2008 Marie S. Wilcox Scholarship: 2004 Indiana University Mathematics Department
APPOINTMENTS	Lecturer, UT Austin, June 2011-present Integral Calculus: Spring 2012 Integral Calculus for Science: Spring 2012, Fall 2011 Discrete Mathematics: Spring 2012, Fall 2011 (2 sections) Preparation for Calculus: Summer 2011 Differential and Integral Calculus II: Summer 2011 Assistant Instructor Differential Calculus for Science, co-lecturer: Fall 2010 Foundations of Geometry, Statistics and Probability: Fall 2008 RTG Graduate Traineeship: Summer 2010, Fall 2009, Summer 2009, Summer 2008 Teaching Assistant Modern Mathematics, Plan II: Spring 2010 Differential and Integral Calculus II : Spring 2007, Spring 2006 Matrices and Matrix Calculations: Fall 2005 Integral Calculus: Spring 2005 Multivariable Calculus: Fall 2004 Graduate Research Assistantship: Spring 2009 Supplemental Instruction Teaching Assistant Differential and Integral Calculus II : Spring 2008 Differential and Integral Calculus I: Fall 2007, Fall 2006 UT Mathematics Departmental Fellowship: Summer 2005

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- SELECTED TALKS Undergraduate Math Club, UT Austin, October 2011
Colorful Knots
- Saturday Morning Math Group, UT Austin, September 2011
Circuits and paths: bridging our understanding with graphs
- AMS Sectional Meeting, Iowa City, IA, March 2011
Classifying primitive/Seifert knots
- Oklahoma State University, Stillwater, February 2011
Primitive/primitive and primitive/Seifert knots
- University of California, Santa Barbara, October 2010
Primitive/primitive and primitive/Seifert representatives of knots
- Stanford University Topology Seminar, October 2010
Primitive/primitive and primitive/Seifert representatives of knots
- AMS-SMM Meeting, Berkeley, CA, June 2010
Primitive/primitive and primitive/Seifert representatives of knots
- Austin Math Circle, UT Austin, Mar. 2009
Coloring Knots
- Workshop on Geometric Topology, Park City, UT, June 2008
Dean Knots
- Women and Mathematics: Knots, Surfaces, the Curve Complex, Foliations and All That
The Institute for Advanced Study, May 2008
Dean Knots
- SERVICE Organizer for Workshop on Topics in Dehn Surgery
 UT Austin; April 20-22, 2012
- Referee for Knot Theory and Its Ramifications
- Distinguished Women in Mathematics Program
 Co-organizer, UT Austin, Fall 2008-Spring 2011
- Graduate Student Topology Seminar
 Organizer, Fall 2009, Spring 2009
- Sophex Seminar for beginning graduate students
 Organizer, Fall 2009
- Horton-Jacobs Women in Natural Science Lecture
 Co-organizer, Fall 2009, Spring 2009
- Creative Discovery Explorations in Precalculus
 Co-author, Spring 2009
- OUTREACH Saturday Morning Math Group
 Graduate student helper, UT Austin, 2005-2011
- Austin Math Circle
 Graduate student helper, 2008- 2011
- Bryker Woods Elementary School Science Fair
 Judge, Austin, TX, Feb. 2009, Feb. 2011

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UT & ME Empowering Girls in Sports, in School and in Life Expo
Math table helper, Feb. 2010

Austin Area Problem Solving Challenge
Grader, May 2009, May 2008

Explore UT, annual university wide open house
Math table helper, March 2009

Indiana University Annual Physics Department Open House Lecture-Demo Show
Participant, 2001-2004

Mission Possible, annual math and science competition for high school students
Judge, Bloomington, IN, April 2002

Indiana University Brownie Math and Science Day, annual event for Brownie troops
Math room helper, Nov. 2001

CONFERENCES AND WORKSHOPS

Joint Mathematics Meetings: Boston, MA, Jan 2012

AMS Sectional Meeting: Iowa City, IA, Mar. 2011

Joint Mathematics Meetings: New Orleans, Jan 2011

Low-Dimensional Topology and Categorification: SUNY Stony Brook, June 2010

Topology and Geometry in Dimension Three: Oklahoma State University, June 2010

AMS-SMM Meeting: University of California, Berkeley, June 2010

Homology Theories of Knots and Links: MSRI, Jan 2010

First National Forum of Young Topologists: Tulane University, Nov. 2009

Junior Topologists' Research Retreat: University of California, Davis, June 2009

Geometric Topology in 3 and 4 dimensions: University of California, Davis, June 2009

Georgia Topology Conference: University of Georgia, Athens, May 2009

Joint Mathematics Meetings: Washington, D.C., Jan 2009

Texas Geometry and Topology Conference: UT Austin, Oct. 2008

Workshop on Low Dimensional Topology: MSRI, Aug. 2008

Workshop on Geometric Topology: Park City, UT, June 2008

AMS Mathematical Research Communities: Workshop on Teichmüller Theory and Low Dimensional Topology: Snowbird, UT, June 2008

Women and Mathematics: Knots, Surfaces, the Curve Complex, Foliations and All That: The Institute for Advanced Study, May 2008

3-manifold Geometry and Topology and David Epstein's Birthday Conference: Warwick University, July 2007

Geometry and the Imagination: Princeton University, June 2007

Texas Geometry and Topology Conference: Rice University, Oct. 2006