

Melissa L. Macasieb

CURRICULUM VITAE

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Education

PH.D., Mathematics, University of Texas at Austin, December 2005. Professor Alan Reid, advisor.

B.A., Mathematics and English Literature, Columbia College, Columbia University, May 1995.

Employment

VISITING ASSISTANT PROFESSOR. University of Maryland, August 2008-present.

POSTDOCTORAL FELLOW. University of British Columbia, July 2006-July 2008.

LECTURER. University of Texas at Austin, Spring 2006.

ASSISTANT INSTRUCTOR, TEACHING ASSISTANT AND RESEARCH ASSISTANT. University of Texas at Austin, Fall 1998 - Spring 2005.

COORDINATOR FOR THE SATURDAY MORNING MATH GROUP. University of Texas at Austin, Fall 2001 - Spring 2002.

Research Interests

Geometric topology and knot theory, especially the arithmetic invariants of hyperbolic 3-manifolds and connections between number theory and hyperbolic manifolds.

Awards and Fellowships

SUMMER 2005 - VIGRE Fellowship, University of Texas at Austin.

2002-2003 -VIGRE Fellowship, University of Texas at Austin.

SUMMER 1998 - Departmental Fellowship, University of Texas at Austin.

Publications

Character varieties of a family of 2-bridge knots, with Kathleen Petersen and Ronald van Luijk, submitted.

Commensurability classes of the $(-2, 3, n)$ pretzel knots, with Thomas Mattman, Algebraic & Geometric Topology **18** (3),1833–1853, 2008.

Derived arithmetic Fuchsian groups of genus two, Experimental Math **17** (1), 347–369, 2008.

Derived arithmetic Fuchsian groups of genus two, Ph.D. Thesis, The University of Texas at Austin, December 2005.

Invited Talks

- JUNE 2010 - CMS Meeting - Geometric Topology Session.
- APRIL 2010 - Workshop on Character Varieties in the Geometry and Topology of Low-dimensional Manifolds, Banff International Research Station.
- APRIL 2009 - University of Maryland - Geometry/Topology Seminar.
- APRIL 2009 - Florida State University - Topology Seminar.
- JANUARY 2009 - Knots in Washington - George Washington University.
- OCTOBER 2008 - George Washington University - Topology Seminar.
- JUNE 2008 - Second Canada France Congress, Topology, Knots, and Related Fields Session.
- MAY 2008 - Women in Math Program in Topology - Research seminar, IAS.
- APRIL 2008 - University of Victoria, Topology Seminar.
- MARCH 2008 - PIMS/SFU/UBC Number Theory Seminar.
- OCTOBER 2007 - Workshop on Low-Dimensional Topology and Number Theory, Banff International Research Station.
- JUNE 2007 - Université Paul Sabatier Toulouse, France - Topology Seminar.
- APRIL 2007 - Cascade Topology Conference, University of British Columbia.
- OCTOBER 2006 - University of British Columbia - Algebra/Topology Seminar.

Conferences Attended

- JUNE 2009 - Conference in Interactions between Hyperbolic Geometry, Quantum Topology and Number Theory, Columbia University.
- AUGUST 2008 - Conference in Low Dimensional Topology (Kirbyfest), MSRI.
- MAY 2008 - Women in Math Program in Topology, Institute of Advanced Study.
- OCTOBER 2007 - Workshop on Low Dimensional Topology and Number Theory, Banff International Research Station, Canada.
- JULY 2007 - Workshop on 3-manifold Geometry and Topology, University of Warwick, UK.
- MAY 2007 - Cascade Topology Seminar, University of British Columbia.
- JUNE 2006 - Conference on 3-manifold Topology (Shalenfest), Centre de Recherches de Mathématiques, Montréal.
- MAY 2005 - 3-Manifolds and Knot Theory Conference (Gordonfest), University of Texas at Austin, .
- JUNE 2004 - Tameness in Texas, University of Texas at Austin.

Teaching Experience

SUMMER 2009 - Differential Equations, University of Maryland.
SPRING 2009 - Elementary Calculus I, University of Maryland.
FALL 2008 - Elementary Calculus I and Advanced Calculus, University of Maryland.
SPRING 2008 - Integral Calculus, University of British Columbia.
FALL 2007 - Multivariable Calculus, University of British Columbia.
SPRING 2007 - Linear Algebra, University of British Columbia.
FALL 2006 - Differential Calculus, University of British Columbia.
SPRING 2006 - Discrete Mathematics, University of Texas at Austin.
SPRING 2006 - Introduction to Mathematics, University of Texas at Austin.
FALL 2003 - Precalculus, University of Texas at Austin.

Service

2008-PRESENT - Referee for the following journals: Geometriae Dedicata, London Mathematical Society.
2007-2008 - Algebra/Topology Seminar, co-organizer, University of British Columbia.
2000-2005 - Saturday Morning Math Group Volunteer, University of Texas of Austin.
2002-2003 - Junior Topology Seminar, organizer, University of Texas of Austin.

Personal Information

CITIZENSHIP: United States of America.
LANGUAGES: Native English speaker, Fluent in French.

References

MICHEL BOILEAU, Professor of Mathematics, Université Paul Sabatier Toulouse, France
email: boileau@picard.ups-tlse.fr.
STEVEN BOYER, Professor of Mathematics, Université du Québec à Montréal
email: steven.boyer@uqam.ca.
ALAN REID, Professor of Mathematics, University of Texas at Austin
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DALE ROLFSEN, Professor of Mathematics, University of British Columbia
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