

CURRICULUM VITA

LAWRENCE PIERCE ROBERTS

Contact Information:

Department of Mathematics, Michigan State University
East Lansing, MI 48824
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Education:

May 1997	B.A., Mathematics	Washington University, St. Louis
	Summa Cum Laude	
December 2004	Ph.D. Mathematics,	University of California, Berkeley

Teaching and Employment:

Visiting Assistant Professor, Michigan State University, Aug. 2008 –
Visiting Research Instructor, RTG program in Geometry/Topology,
Michigan State University, Aug. 2005 - Aug. 2008
Graduate Student Researcher, Fall 2003, University of California, Berkeley.
Instructor for Summer Session 2002, University of California, Berkeley
Graduate Student Instructor, University of California, Berkeley

Awards and Fellowships:

Outstanding Graduate Student Instructor 2003, University of California, Berkeley
National Science Foundation Graduate Research Fellowship 1998-2001
Honorable Mention, William Lowell Putnam Examination, 1994
Arthur Holly Compton Fellowship, Washington University, St. Louis 1993-1997
Phi Beta Kappa

Dissertation: “Heegaard-Floer Homology and Based Links in Three-Manifolds” written under the direction of Rob Kirby.

Publications:

“Graphical discovery of a new identity for Jacobi polynomials” w. Brian Gerard,
American Mathematical Monthly, vol. 105, no. 2. Feb 1998, p. 163 – 166.

“Heegaard-Floer homology and string links” math.GT/0607244, submitted for publication

“Rational blow downs in Heegaard-Floer homology”, *Communications in Contemporary Mathematics*. Vol 10, No. 4, August 2008. pgs. 491-522

“On knot Floer homology in double branched covers”, math.GT/0706.0741, submitted

“On knot Floer homology for some fibered knots”, math.GT/0706.0743, submitted

“Note on the Heegaard-Floer link surgery spectral sequence”, math.GT/0808.2817

“Finding bounds for the τ -invariant of a satellite knot”, in preparation

“Heegaard-Floer homology and string links, II”, in preparation

Teaching:

Fall 2008	Math 254H: Honors Multi-Variable Calculus	Michigan State University
Spring 2008	Math 864: Geometric Topology (graduate level)	Michigan State University
Fall 2007	Math 461: Metric and Topological Spaces	Michigan State University
Spring 2007	Math 153H: Honors Calculus II	Michigan State University
Fall 2007	Math 152H: Honors Calculus I	Michigan State University
Spring 2006	Math 234: Multi-Variable Calculus	Michigan State University
Fall 2005	Math 132: Calculus I	Michigan State University
Summer 2002	Math 16B: Applied Calculus II	University of California, Berkeley

Invited Talks:

several talks in the MSU Geometry and Topology seminar
 2008 Georgia Topology Conference
 Rice University Topology Seminar