

MATTHEW J. LAFFERTY

CONTACT INFORMATION	Department of Mathematics University of Arizona 617 N. Santa Rita Ave. Tucson, AZ 85075	Office: (520) 626-0410 math.arizona.edu/~mlafferty mlafferty@math.arizona.edu
RESEARCH INTERESTS	Number theory and arithmetic geometry, specifically Iwasawa theory, modular forms and p -adic L -functions.	
EDUCATION	University of Arizona , Tucson, AZ Ph.D. in Mathematics Advisor: Romyar Sharifi	05/2015 (expected)
	Clemson University , Clemson, SC M.S. in Mathematics Thesis title: <i>The square threshold problem in number fields</i> Advisor: Kevin James	05/2008
	Saint Olaf College , Northfield, MN B.A. in Mathematics	06/2003
EMPLOYMENT	Part-time Instructor <i>University of Nebraska at Omaha, Department of Mathematics</i>	01/2013 - 12/2013 Omaha, NE
	Teaching Assistant <i>University of Arizona, Department of Mathematics</i>	08/2012 - 12/2012 Tucson, AZ
	NSF GK-12 Fellow <i>Mountain View High School</i>	06/2011 - 05/2012 Tucson, AZ
	NSF GK-12 Fellow <i>St. Michael's Parish Day School</i>	06/2010 - 05/2011 Tucson, AZ
	Teaching Assistant <i>University of Arizona, Department of Mathematics</i>	08/2008 - 05/2010 Tucson, AZ
	Research Assistant <i>Clemson University, Academic Success Center</i>	07/2007 - 05/2008 Clemson, SC
	Teaching Assistant <i>Clemson University, Department of Mathematical Sciences</i>	07/2006 - 05/2007 Clemson, SC
	Trading Analyst <i>GMAC Residential Capital, Principal Investment Activities</i>	12/2004 - 07/2006 Bloomington, MN

AWARDS	2014	Dissertation Tuition Scholarship Award <i>Graduate College, University of Arizona</i>
	2011	NSF GK-12 Fellowship <i>Department of Mathematics, University of Arizona</i>
	2010	NSF GK-12 Fellowship <i>Department of Mathematics, University of Arizona</i>
	2009	High Pass, Mathematics Ph.D. Qualifying Exams (first attempt) <i>Department of Mathematics, University of Arizona</i>
	2008	Outstanding Mathematics Graduate Student <i>Department of Mathematical Sciences, Clemson University</i>
	2008	Graduate Assistant of the Year <i>Academic Success Center, Clemson University</i>
PUBLICATIONS & PREPRINTS		<i>Eichler-Shimura cohomology groups and the Iwasawa main conjecture</i> - in preparation.
		<i>The square threshold problem in number fields</i> , M.S. Thesis, Clemson University, 2008. (pdf)
TEACHING EXPERIENCE	Fall 2013	Calculus I <i>University of Nebraska at Omaha</i>
	Spring 2013	Calculus (Mgr., Life, and Social Sciences) <i>University of Nebraska at Omaha</i>
	Fall 2012	College Algebra <i>University of Arizona</i>
	2011-2012	Intermediate Algebra & Algebra II <i>Mountain View High School</i>
	2010-2011	Pre-Algebra & Algebra I, II <i>St. Michael's Parish Day School</i>
	Spring 2010	Calculus Preparation <i>University of Arizona</i>
	Fall 2009	College Algebra <i>University of Arizona</i>
	Spring 2009	College Algebra <i>University of Arizona</i>
Fall 2006	Calculus of One Variable I <i>Clemson University</i>	
TALKS	09/2014	"Eichler-Shimura Cohomology Groups and the Iwasawa Main Conjecture" <i>Algebra and Number Theory Seminar, University of Arizona</i>
	03/2013	"Hida Families" <i>Algebra and Number Theory Seminar, University of Arizona</i>
	11/2010	"Math is Everywhere" <i>Family Math Night, St. Michael's Parish Day School</i>
	02/2010	"A Middle School Math Circle" <i>MEAD Conference, Tucson High School</i>
	12/2009	"Galois Groups of p-polynomials" <i>RTG Mini Conference, University of Arizona</i>
	09/2008	"Primes in Arithmetic Progression" <i>Graduate Student Colloquium, University of Arizona</i>

CONFERENCES ATTENDED	<i>p</i>-adic Modular Forms, <i>L</i>-functions, and Galois representations	May 2013
	<i>University of California at Los Angeles</i>	Los Angeles, CA
	Arizona Winter School Modular Forms and Modular Curves	March 2013
	<i>University of Arizona</i>	Tucson, AZ
	Sardinian Summer School on Iwasawa Theory	August 2012
	<i>Porto Conte Ricerche</i>	Alghero, Sardinia
	<i>p</i>-adic Modular Forms and Arithmetic	June 2012
	<i>University of California at Los Angeles</i>	Los Angeles, CA
	Arizona Winter School Ramification and Geometry	March 2012
	<i>University of Arizona</i>	Tucson, AZ
SERVICE	Workshop on Iwasawa Theory	October 2011
	<i>University of Arizona</i>	Tucson, AZ
	Mathematicians in Higher Education	April 2011
	<i>University of Arizona</i>	Tucson, AZ
	G-TEAMS, HEATWAVES & BioME Showcase	February 2011
	<i>University of Arizona</i>	Tucson, AZ
	Mathematical Educator Appreciation Day	January 2011
	<i>Tucson High School</i>	Tucson, AZ
	Mathematicians in Higher Education	April 2010
	<i>University of Arizona</i>	Tucson, AZ
Arizona Winter School Quadratic Forms	March 2009	
<i>University of Arizona</i>	Tucson, AZ	
Fall 2010 - Spring 2011	Organizer of <i>Monday Math Mania</i> , a non-competitive after school math club at St. Michael's Parish Day School.	
Fall 2012	Graduate representative on the Undergraduate Mathematics Education Committee at the University of Arizona.	