Amanda Beeson

Department of M Williams College	athematics and Statistics amanda.be http://www.williams.edu/web/mathe	amanda.beeson@williams.edu http://www.williams.edu/web/mathematics/ambeeson/	
Education	Massachusetts Institute of Technology B.S. in Mathematics with Computer Science	June 2003	
	University of California, San Diego M.A. in Pure Mathematics Ph.D. in Mathematics	Spring 2004 June 2009	
Research	Algebraic and Analytic Number Theory: Stark conjectures, explicit class field theory, complex multiplication, modular units.		
	AMS subject classifications: : 11G16, 11M06, 11M35, 11R04, 11R18, 11R20, 11R27, 11R29, 11R33, 11R34, 11R37, 11R42.		
	Dissertation Groups of Special Units, under Professor H. Stark	June 2009	
Awards	GAANN Fellow UCSD Mathematics Department Outstanding TA Award	2003-2009 Spring 2008	
Appointments	Visiting Assistant Professor, Williams College2009-2010Currently teaching modular forms and two sections of calculus I; will teachdiscrete mathematics and calculus II in the Spring semester.		
	Instructor , MIT Middle East Education Through Technology Program Summer 2009 Taught Java, software engineering, JSPs/servlets, and databases to talented high school students.		
	Associate Instructor , University of California, San Diego Taught precalculus course; wrote exams; oversaw TA and grader.	Fall 2007	
	Teaching Assistant , University of California, San Diego Taught calculus, discrete math, vector spaces, abstract algebra, and m	<i>2003-2008</i> number theory.	
	Qual Prep Instructor, University of California, San DiegoSummers 2007-2008Gave concise review of graduate algebra for qualifying exam preparation program;wrote practice qualifying exams.		
	Adjunct Assistant Professor , University of San Diego Taught two college algebra courses.	Fall 2008	
	Associate Instructor, University of California, San Diego Summer 2008, Winter 2009 Taught linear algebra course in the Summer quarter and differential equations in the Winter quarter; wrote exams; oversaw TA and MatLab sections; received 92% approval rating on student reviews.		
	Teaching Assistant, Institute for Advanced Study, Princeton Taught zeta functions of graphs under Professor A. Terras at the Won Mathematics Program.	Spring 2006 men and	
	ounselor, PROMYS, Boston University elped organise all aspects of summer program in elementary number theory r talented high school students; led high school research groups; gave mini- burses, talks, review sessions; organised and participated in counselor learning minars; held head counselor position in Summer 2004.		

Talks	Almost Abelian Extensions , Five Colleges Number Theory Seminar Invited talk about the maximal almost abelian extension of an imaginary quadratic base field.	December 2009		
	Almost Abelian Extensions , AMS Sectional Meeting, Boca Raton Invited talk about the maximal almost abelian extension of an imaginary quadratic base field.	November 2009		
	Projective Geometry , University of Connecticut Invited Student Colloquium about projective geometry.	October 2009		
	Almost Abelian Extensions, Williams CollegeSeptember 2009Faculty seminar about the maximal almost abelian extension of an imaginary quadratic base field.September 2009			
	Groups of Special Units , University of California, San Diego Dissertation defense.	June 2009		
	Group Cohomology , University of California, San Diego Series of talks given to graduate number theory students.	Winter 2008		
	Class Field Theory Seminar, University of California, San Diego 2007-2008 Gave talks on valuation theory, kummer theory, and the existence theorem.			
	Pentagons and Permutations , University of California, San Diego <i>February 2008</i> Food for Thought seminar that provided a naïve introduction to modular forms through theta functions and a proof of Euler's Pentagonal Number Theorem.			
	Modular Units , University of California, San Diego Advancement to candidacy.	March 2007		
	Graduate Learning Seminar , University of California, San Diego Discussed ramification, culminating in a proof of quadratic reciprocity.	July 2006		
	Multimodular Elimination, University of California, San Diego November 2002 Graduate research seminar about algorithm for fast row reduction of a matrix with entries in an arbitrary number field.			
	Bernoulli Numbers , University of California, San Diego GAANN talk regarding Bernoulli numbers and the Riemann zeta function.	June 2004		
Skills				
	Can program in Java, JSP/servlets, HTML, MatLab, Mathematica, pari; o with unix/linux, Mac OSX, and Windows; can speak Spanish, some Dutch German, and do a mean fake British accent; amateur photographer and ba	comfortable and aker.		