

James Stankewicz

CONTACT INFORMATION	Department of Mathematics University of Georgia Athens, GA 30605, USA	(706) 542-2604 stankewicz@gmail.com www.math.uga.edu/~jstankew/
CITIZENSHIP	USA	
EDUCATION	Ph.D., University of Georgia Mathematics, May 2012 (expected) M.S., University of Connecticut Mathematics, June 2007 B.A., University of Connecticut Mathematics, June 2005	
HONORS AND AWARDS	VIGRE fellowship, August 2008 - July 2009 VIGRE fellowship, August 2010 - July 2011 William Armor Wills Memorial Scholarship, May 2011 University of Georgia Dissertation Completion Award, August 2011-May 2012	
RESEARCH INTERESTS	Number Theory, Algebraic and Arithmetic Geometry, Abelian Varieties, Moduli Spaces, Shimura Curves	
PUBLICATIONS	<i>On a Generalization of the Frobenius Number</i> with A. Brown, E. Dannenberg, J. Fox, J. Hanna, K. Keck, A. Moore, Z. Robbins and B. Samples, <i>Journal of Integer Sequences</i> 13 (2010) 10.1.4 <i>Unbounded discrepancy in Frobenius Numbers</i> with J. Shallit, <i>INTEGERS: Electronic Journal of Combinatorial Number Theory</i> 11 (2011) A2 <i>sln Level 1 Conformal Blocks Divisors on $M0n$</i> with M. Arap, A. Gibney and D. Swinarski, <i>International Mathematics Research Notices</i> (2011) doi: 10.1093/imrn/rnr064 <i>Torsion Points on Elliptic Curves with Complex Multiplication</i> with P. L. Clark and B. Cook , submitted	
PAPERS IN PREPARATION	<i>Computations on CM Elliptic Curves</i> with P. L. Clark, P. Corn, S. Lane, A. Rice, N. Walters, S. Winburn and B. Wyser	
DOCTORAL THESIS IN PREPARATION	<i>Twists of Shimura Curves</i> supervised by Pete L. Clark and Dino J. Lorenzini	
INVITED TALKS	<i>Twists of Shimura Curves and Applications</i> <ul style="list-style-type: none">• City University of New York, February 2012 <i>Twists of Shimura Curves</i> <ul style="list-style-type: none">• Palmetto Number Theory Series XVI, Emory University, September 2011• Maine-Québec number theory conference, University of Maine, October 2011	

- Algebraic geometry and number theory seminar, Johns Hopkins University, November 2011
- Special Session: Rational points on varieties, Joint meetings of the American Mathematical Society, Boston, January 2012

Elliptic curves and quaternion algebras (expository)

- Special Topics in Arithmetic, Geometry, Etc., MIT, November 2011

Shih's method and rational points

- Ramification in Algebra and Geometry at Emory, Emory University, May 2011

Some recent progress on the Frobenius problem

- Palmetto Number Theory Series XIV, University of South Carolina, December 2010

Torsion Subgroups of CM Elliptic Curves

- Palmetto Number Theory Series VII, College of Charleston, October 2008

Torsion Points on CM Elliptic Curves

- Southeast Regional Meeting on Numbers, Clemson University, April 2008

RESEARCH TALKS
GIVEN AT UGA

Simultaneous embeddings into quaternion orders, Mock AMS Conference, July 2011

Local points on twists of Shimura Curves at Deligne-Rapoport Primes, Number Theory Seminar, December 2010

Twists of $X_0(14)$ and the inverse Galois problem, Mock AMS Conference, July 2010

On a Generalization of the Frobenius Number, The second part of a presentation with Alex Brown in the VIGRE Graduate Student Seminar, March 2010

Torsion Subgroups of CM Elliptic Curves, Number Theory Seminar, October 2008

Torsion Points on CM Elliptic Curves, VIGRE seminar, April 2008

EXPOSITORY
TALKS GIVEN AT
UGA

The Method of Chabauty-Coleman, Student Number Theory Seminar, September 2010

Theta Characteristics, Riemann Surfaces Presentations, April 2010

GIT and Toric Varieties, Toric Varieties Presentations, April 2010

The Hasse Principle, Student Number Theory Seminar, January 2010

M.C. Escher and Maps between Elliptic Curves, VIGRE Graduate Student Seminar, November 2009

Serre's account of Shih's Theorem, Number Theory Seminar, September 2009

Rings of Low Rank, VIGRE summer seminar, June 2009

Modular Forms and Quaternion Algebras, Modular Forms Presentation Series, May 2009

Ideal Classes and SL_2 , VIGRE Summer Seminar, July 2008

Introduction to the p-adic numbers, VIGRE seminar, October 2007

RESEARCH
WORKSHOPS
ATTENDED

Arizona Winter School: Stark-Heegner Points, project group led by Henri Darmon (McGill) and Víctor Rotger (UPC), University of Arizona, March 2011

Sage days 22: Elliptic Curves, project group led by John Cremona (Warwick), MSRI, June-July 2010

Arizona Winter School: Quadratic Forms, project group led by Manjul Bhargava (Princeton), University of Arizona, March 2009

CONFERENCES
ATTENDED

Joint meetings of the American Mathematical Society, Boston, January 2012

Maine-Québec number theory conference, University of Maine, October 2011

Palmetto Number Theory Series XVI, Emory University, September 2011

Summer School in Arithmetic Dynamics, University of Georgia, May 2011

Ramification in Algebra and Geometry at Emory, Emory University, May 2011

Atkin Memorial Conference, University of Illinois at Chicago, April 2011

Palmetto Number Theory Series XV, Clemson University, February 2011

Compact Moduli and Vector Bundles, University of Georgia, October 2010

Torsion Points on Abelian schemes and rational points on moduli spaces, Institut Mathématiques Bordeaux, France, January 2010

Palmetto Number Theory Series XI, University of South Carolina, December 2009

Southeast Sectional AMS meeting, Florida Atlantic University, October 2009

SAGE Days 13, University of Georgia, March 2009

AMS-MAA Joint Meetings, Washington D.C., January 2009

Palmetto Number Theory Series VII, College of Charleston, October 2008

The Tenth Meeting of the Canadian Number Theory Association, University of Waterloo, July 2008

Southeast Regional Meeting on Numbers, Clemson University, April 2008

Northeast Sectional AMS meeting, University of Connecticut, October 2006

PROFESSIONAL
EXPERIENCE

University of Georgia, Athens, Georgia USA

Project Assistant

- Supervised research by undergraduates on the Frobenius Problem in IVRG led by Dino Lorenzini, Fall 2008

Instructor

- Calculus course of roughly 40 students, Math 2200, Fall 2009
- Calculus course of roughly 20 students, Math 2200, Spring 2008
- PreCalculus class of roughly 40 students, Math 1113, Fall 2007

Grader

- Graded for Jon Hanke's cryptology class, Spring 2010
- Graded for Michael Ching's algebraic topology class, Spring 2010
- Graded for Dino Lorenzini's cryptology class, Fall 2007

University of Connecticut, Storrs, Connecticut USA

Instructor

- Math 105, a Business math class of roughly 30 students, Spring 2007

Teaching Assistant

- Two sections of Calculus I, Math 112, Fall 2005
- Two sections of Calculus II, Math 113, Spring 2006
- Two sections of Calculus I, Math 112, Fall 2006

CAP Tutor

- Tutored students from at-risk communities in Connecticut who were conditionally accepted to the University of Connecticut, Summer 2006 and 2007

Tutor

- Tutored undergraduate students at the UConn Q-Center, Fall 2005 - Spring 2007

Grader

- Graded for Evarist Gine's calculus class, Fall 2004

SERVICE

Sage Development

- Wrote code in **sage** for *S*-class groups of number fields.
- Reviewed code for input into **sage** via the **trac** server.

Complex Analysis Qual Preparation

- Met once a week with students studying for the Complex Analysis Qualifying Exams, answering questions and posing problems, Summer 2010

CURO Symposium Preparation

- Supervised Alex Brown's preparation for his talk, "On a Generalization of the Frobenius Number" at the March 2010 Symposium for the University of Georgia's Center for Undergraduate Research Opportunities
- Gave opening remarks for the above talk at the Symposium

Georgia High School Math Tournament Volunteer

- Served as a proctor, October 2009

TECHNICAL SKILLS Programming: Python

Applications: \LaTeX , **magma**, **sage**, Macaulay, Maple, Matlab

Translation Experience: French, German