

PERSONAL

Name George Todd
Phone 650-766-7215
Email toddg@union.edu
Website <http://www.math.union.edu/~toddg>

POSITIONS

Visiting Assistant Professor September 2015 - Present
 Union College Schenectady, NY

EDUCATION

Ph.D. in Mathematics May 2015
 University of Arizona Tucson, Arizona
 Advisor: Dinesh Thakur

 M.S. in Mathematics May 2013
 University of Arizona Tucson, Arizona

 B.S. in Mathematics May 2009
 University of Texas Austin, Texas

PUBLICATIONS

[5] *Stabilization of Multipartite Graph Families* (with Danielle Gregg*, Thomas Mattman, and Zachary Porat*), in preparation.

[4] *Supercharacters, Elliptic Curves, and the Sixth Moment of Kloosterman Sums* (with Stephan Ramon Garcia), submitted.

[3] *Supercharacters and Mixed Moments of Kloosterman Sums* (with Ángel Chávez), International Journal of Number Theory, Volume 14 No. 4, 1023-1032 (2018).

[2] *A Conjectural Characterization for $\mathbb{F}_q(t)$ -Linear Relations between Multizeta Values*, Journal of Number Theory, Volume 187, 264-287 (2018).

[1] *Infinitude of Wilson Primes for $\mathbb{F}_q[t]$* (with Jim Sauerberg, Lingsueh Shu and Dinesh Thakur), Acta Arithmetica, 157 No. 1, 91-100 (2013).

* Star denotes an undergraduate student at Union College

**THESES/RESEARCH
SUPERVISED**

- Zongliang Ji - *Approximation of Continuous Functions by Neural Networks* - Senior Honors Thesis 2018
- Yunye Jiang - *Galois Theory and the Quintic Equation* - Senior Honors Thesis 2018
- Zachary Porat - *Estimates for Families of Graphs* - Independent Study - Spring 2018
- Danielle Gregg - *Intrinsically Knotted Graphs and Families of Graphs* - Scholars Project 2017
- Melissa Epstein - *Primes in Quadratic Extensions* - Senior Honors Thesis 2017
- Elizabeth Ricci - *Social Networks and Literature: Genre Analysis Using Network Theory* - Summer Research 2016
- In progress:
 - Katrina Francis - *Social Robotics and Interacting Gaussian Processes* - Senior Interdisciplinary Thesis
 - Julia Greene - *Galois Theory, Geometric Constructions, and Origami* - Senior Honors Thesis
 - Danielle Gregg - *Stabilization of Multipartite Graph Families* - Senior Thesis
 - Mushan Zhong - *Radix Expansions in Quadratic Fields* - Independent Research 2018

TALKS

<i>AMS Contributed Paper Session on Number Theory III</i> AMS Joint Math Meetings 2019	January 2019
<i>Music Theory and Number Theory</i> Union College, Undergraduate Math Seminar	May 2018
<i>Supercharacters, Elliptic Curves, and the Sixth Moment of Kloosterman Sums</i> Upstate New York Number Theory Conference	April 2018
<i>Supercharacters and Mixed Moments of Kloosterman Sums</i> Joint Math Meetings 2018, AMS Contributed Paper Session on Number Theory I	January 2018
<i>The Main Diophantine Conjecture for Multizeta Values</i> Union College, Math Research Seminar	October 2017
<i>Function Field Analogs of Zagier's Multizeta Value Conjectures</i> University of Arizona, Algebra and Number Theory Seminar	May 2015
<i>Linear Relations Between Multizeta Values in Function Fields</i> University of Rochester, Number Theory Seminar	February 2015
<i>Multizeta Values</i> University of Arizona, Graduate Student Colloquium	May 2014

TEACHING

Instructor (Union College)

- Abstract Algebra I
- Topics in Discrete Math (Graph Theory, Ramsey Theory, Theory of Computation)
- Intro. Logic and Set Theory
- Mathematical Cryptography
- Integrated Math Physics 2
- Calculus with Applications 1 (x3)
- Calculus 3, Calculus 4 (x2)
- Calculus 1 (x2), Calculus 2 (x2)
- Accelerated First-Year Calculus (x3)

Instructor (University of Arizona)

- Intro. Linear Algebra (x3)
- Vector Calculus
- Matrix Analysis
- Intro. Statistics and Biostatistics
- Calculus I with Applications (x3)
- Pre-Calculus
- College Algebra

Teaching Assistant (University of Arizona)

- Abstract Algebra I, Abstract Algebra II
- Formal Mathematical Reasoning and Writing (x2)
- College Algebra

GK-12 (Palo Verde Magnet High School)

- GK-12 Fellow, Geometry Honors, Geometry

SERVICE	Referee for the American Mathematical Monthly	
	Co-chair, AMS Session on Number Theory III Joint Math Meetings 2018	January 2019
	Co-chair, AMS Session on Number Theory I Joint Math Meetings 2018	January 2018
	Co-organizer, Union College Math Conference Union College	December 2016
	Math Competition Review Session Organizer (Putnam, etc.) Union College	Fall 2015 - Present
	Graduate Student Liason Union College	Fall 2015 - Spring 2016
	First-Year Student Advisor Union College	Spring 2016 - Present
	Undergraduate Committee, Graduate Student Representative University of Arizona	Fall 2014 - Spring 2015
	Mathematical Modeling Team Mentor University of Arizona	Spring 2014, Spring 2015
	Advisor, Undergraduate Teaching Assistants, Vector Calculus University of Arizona	Fall 2014
	Advisor, Undergraduate Teaching Assistant, Intro. Linear Algebra University of Arizona	Fall 2013
GRANTS AND AWARDS	NSF GK-12 Fellowship University of Arizona	June 2012 - May 2013
	Outstanding Graduate Teaching Award University of Arizona, Department of Mathematics	May 2012
	NSF VIGRE Summer Fellowship University of Arizona	Summer 2010
	NSF S-STEM Grant University of Arizona	Fall 2009, Spring 2010

**SELECTED
WORK HISTORY**

Grader University of Texas Mathematics Department	Fall 2008 Austin, Texas
Software Engineer Consultant (Bioware, Sony Online Entertainment, P2 Entertainment)	2006 - 2009 Austin, Texas
Jr. Software Engineer Perpetual Entertainment	2005 - 2006 San Francisco, California
Network Engineer / Unix Systems Administrator Electronic Arts	2001 - 2005 Redwood City, California