
CONTACT INFORMATION	Department of Mathematics Boyd Graduate Studies Research Center Athens, GA 30602	tylergenao@uga.edu tylergenao.com github.com/tgenao
RESEARCH INTERESTS	Number theory + arithmetic geometry	
EDUCATION	University of Georgia , Athens, GA Ph.D. Candidate Advisor: Pete L. Clark	<i>August 2017-</i>
	Florida Atlantic University , Boca Raton, FL B.Sc., Mathematical Sciences with high honors	<i>May 2017</i>
HONORS AND AWARDS	National Science Foundation Graduate Research Fellowship	<i>2017-2022</i>
	NSF RTG Graduate Student Fellowship	<i>2018-2019</i>
PUBLICATIONS + PREPRINTS	<ol style="list-style-type: none"> 1. T. Genao, <i>Typically bounding torsion on elliptic curves with rational j-invariant</i>. Accepted to J. Number Theory (2021). Copy. 2. P.L. Clark, T. Genao, P. Pollack and F. Saia, <i>The least degree of a CM point on a modular curve</i>. Accepted to J. Lond. Math. Soc. (2021). Copy. Code. 3. P.L. Clark, T. Genao and F. Saia, <i>Chevalley-Waring at the boundary</i>. Accepted to Expo. Math. (2021). Copy. Code. 4. A. Barquero-Sanchez, L. Cadwallader, O. Cannon, T. Genao and R. Masri, <i>Faltings heights of CM elliptic curves and special gamma values</i>. Research in Number Theory (2017). Copy. 5. A. Block Gorman, T. Genao, H. Hwang, N. Kantor, S. Parsons and J. Rouse, <i>The density of primes dividing a particular non-linear recurrence sequence</i>. Acta Arithmetica (2016). Copy. 6. T. Genao, <i>Typically bounding torsion on elliptic curves isogenous to rational j-invariant</i>. Submitted. Copy. 7. A.P. Akande, T. Genao, S. Haag, M.D. Hendon, N. Pulagam, R. Schneider and A.V. Sills, <i>Computational study of non-unitary partitions</i>. Submitted. Copy. 	
TALKS	<ol style="list-style-type: none"> 1. <i>Typically bounding torsion on elliptic curves: $j(E) \in F$ and beyond</i> Maine-Québec Number Theory Conference <i>October 2021</i> 2. <i>Typically bounding torsion on elliptic curves: $j(E) \in F$ and beyond</i> Number Theory Seminar, UGA <i>September 2021</i> 3. <i>Cyclic isogenies under isogenous elliptic curves</i> Graduate Summer Conference, UGA <i>August 2021</i> 4. <i>Entanglements of Galois representations of CM elliptic curves</i> CRAAG II, UGA <i>July 2021</i> 	

5. *Serre's adelic open image theorem for non-CM elliptic curves*
SeZoom, UGA *April 2021*
6. *Torsion, bounds and typically bounding torsion*
Graduate Student Seminar, UGA *October 2020*
7. *Number theory through inquiry*
SUMR Conference, UGA *July 2020*
8. *Foray into Galois representations*
Graduate Summer Conference, UGA *July 2020*
9. *Constructible numbers, division points and class field theory*
Graduate Student Seminar, UGA *April 2020*
10. *What are inseparable and transcendental extensions?*
SMARTS Conference, UGA *February 2020*
11. *Why is $e^{\pi\sqrt{163}}$ almost an integer?*
Graduate Summer Conference, UGA *July 2019*
12. *Faltings heights of CM elliptic curves and special gamma values*
Joint Mathematics Meetings, Atlanta, GA *January 2017*
13. *Elliptic curves and their Faltings height*
Texas A&M University *July 2016*
14. *The density of primes dividing a particular non-linear recurrence sequence*
Joint Mathematics Meetings, Seattle, WA *January 2016*
15. *Describing the density of primes dividing a point on a particular elliptic curve*
Graduate Summer Conference, UGA *July 2015*

PROGRAMS I'VE
ATTENDED

1. Maine-Québec Number Theory Conference
*October 2-3, 2021**
2. PAJAMAS III
*September 25-26, 2021**
3. YRANT III (Young Researchers in Algebraic Number Theory)
*August 18-20, 2021**
4. PCMI Summer School: Number Theory Informed by Computation
*July 26-30, 2021**
5. Around Frobenius distributions and related topics II
*June 28-29, 2021**
6. CMS 75th+1 Anniversary Summer Meeting
*June 7-11, 2021**
7. Workshop on Rational Points and Galois Representations
*May 10-12, 2021**
8. Front Range Number Theory Day
*April 24, 2021**

9. JMM 2021
*January 6-9, 2021**
10. PAJAMAS II
*December 5-6, 2020**
11. Madison Moduli Weekend
*September 26-27, 2020**
12. PAJAMAS I (**Palmetto Joint Arithmetic, Modularity, and Analysis Series**)
*September 19-20, 2020**
13. CTNT 2020
*June 8-14, 2020**
14. Arizona Winter School 2020: Nonabelian Chabauty
March 7-11, 2020
15. MAAIM (**Modular Forms, Arithmetic, and Women in Mathematics**)
November 1-3, 2019
16. MAGNTS (**Midwest Arithmetic Geometry and Number Theory Series**)
October 12-13, 2019
17. AIM: LMFDB as a Microscope and a Telescope
September 4-6, 2019
18. CTNT 2018
May 28-June 3, 2018
19. JMM 2017
January 2017
20. CTNT (**Connecticut Summer School in Number Theory**)
August 8-14, 2016
21. Texas A&M REU in Mathematics
May-July 2016
22. JMM (Joint Mathematics Meetings)
January 2016
23. WADE INTO Research REU at Wake Forest University
June-August 2015

* := held online.

**PROGRAMMING
EXPERIENCE**

Have experience with Magma, Python and Sage. See github.com/tgenao for some of my projects.

TEACHING
EXPERIENCE

1. **Instructor of record** for two sections of MATH 1113 (Precalculus).
Spring 2021
2. **Instructor of record** for one section of MATH 1113 (Precalculus).
Fall 2020

SERVICE

1. Course assistant for the 2021 Arizona Winter School.
2. REU assistant during Summer 2020 for a project on non-unitary partitions.
3. Mentor for the Math Directed Reading Program at UGA for Fall 2019, Spring 2020, Fall 2020 and Spring 2021. Topics include the discrete logarithm, quadratic reciprocity and field+Galois theory.
4. Organizer of the Math Directed Reading Program at UGA since Summer 2021.
5. Organized the UGA algebra qual prep course during Summer 2020.