asimina.hamakiotes@uconn.edu asiminah.github.io

Asimina S. Hamakiotes

EDUCATION

University of Connecticut

University of Connecticut

Storrs, CT

Ph.D. in Mathematics

2020-Present

Advisor: Álvaro Lozano-Robledo

Storrs, CT

Masters in Mathematics

2020-2022

Macaulay Honors at Baruch College

New York City, NY

 $B.A.\ in\ Mathematics$

2016-2020

Minors: Philosophy, Interdisciplinary Minor with Honors in New York City Studies

 Honors Thesis: Asimina Hamakiotes, The Distribution of the Greatest Common Divisors of Elements in Quadratic Integer Rings, Baruch College CUNY Library (2020).

Budapest Semesters in Mathematics

Budapest, Hungary

Study abroad program

Spring 2019

RESEARCH INTERESTS

Algebraic number theory and arithmetic geometry. Elliptic curves and Galois representations. Cryptography.

PUBLICATIONS

- 1. Asimina S. Hamakiotes and Álvaro Lozano-Robledo, Elliptic curves with complex multiplication and abelian division fields, submitted.
- 2. Eduardo Dueñez, Asimina S. Hamakiotes, and Steven J. Miller, Sums of Powers by L'Hopital's Rule, submitted.
- 3. Asimina Hamakiotes, Aaron Kriegman, and Wei-Lun Tsai, Asymptotic Distribution of the Partition Crank, Ramanujan Journal, Vol. 56, 803-820 (2021).
- 4. Michael Allen, Nicholas Anderson, Asimina Hamakiotes, Ben Oltsik, and Holly Swisher, Eta-quotients of prime or semiprime level and elliptic curves, Involve, Vol. 13, No. 5 (2020), 879-900.

IN PREPARATION

- 1. John Cullinan, Asimina S. Hamakiotes, Nathan Kaplan, and Gabrielle Scullard, The probability of non-isomorphic group structures of isogenous elliptic curves in finite field extensions, II.
- 2. Alyson Deines, Asimina S. Hamakiotes, Andreea Iorga, Changningphaabi Namoijam, Manami Roy, and Lori Watson, Discriminant twins over number fields.

AWARDS

• Graduate Fellowship for STEM Diversity (\$20,000 annually)

2022 - Present

• CLAS Course Improvement Mini Grant (\$1,500) (Created a module for an inquiry-based mathematical modeling course.)

CUNY Athletic Conference Female Scholar-Athlete of the Year 2019-202 Dr. Jane Katz Academic, Athletics, and Community Service Award 2019-202 Meyer Scholar Recipient, Merit Based Scholarship (\$4,000) 201 2nd place in Traders#MIT (largest algorithmic collegiate trading competition) 201 NVITED CONFERENCE TALKS Maine-Quebec Number Theory Conference Elliptic curves with complex multiplication and abelian division fields - Talk University of Maine LMFDB, Computation, and Number Theory (LuCaNT) 7/10/23 - 7/14/2 Elliptic Curves with CM and Abelian Division Fields - Lightning Talk Institute for Computational and Experimental Research in Mathematics (ICERM) Joint Mathematics Meetings (Boston, MA) 1/4/22 - 1/7/2 The Probability of Non-Isomorphic Group Structures of Isogenous Elliptic Curves in Finite Field Extensions - Talk AMS Special Session on Rethinking Number Theory II Conference de théorie des nombres Québec-Maine Computing the Proportion of Sneaky Primes for Pairs of Elliptic Curves - Talk Université Laval PAlmetto Number Theory Series XXXIV (PANTS 34) 9/24/22 - 9/25/2 Computing the Proportion of Sneaky Primes for Pairs of Elliptic Curves - Talk Université Ontor Carolina at Charlotte Joint Mathematics Meetings (Denver, CO) 1/15/20 - 1/18/2 Asymptotic Distribution of the Partition Crank Shenandoah Undergraduate Student Poster Session *Received Honoruble Mention Shenandoah Undergraduate Mathematics and Statistics Conference (SUMS) Asymptotic Distribution of the Partition Crank - Talk James Madison University Nebraska Conference for Undergraduate Women in Mathematics (NCUWM) PLA-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk University of Nebraska - Lincoln Joint Mathematics Meetings (Baltimore, MD) Eta-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk James Madison University Women in Mathematics in New England Conference (WIMIN) PLA-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk James Madison University Women in Mathematics in New England Conference (WIMI	NCAA Woman of the Year Semifinals	2019-2020
Dr. Jane Katz Academie, Athletics, and Community Service Award Meyer Scholar Recipient, Merit Based Scholarship (\$4,000) 201. 2nd place in Traders@MIT (largest algorithmic collegiate trading competition) NVITED CONFERENCE TALKS Maine-Quebec Number Theory Conference Elliptic curves with complex multiplication and abelian division fields - Talk University of Maine LMFDB, Computation, and Number Theory (LuCaNT) LMFDB, Computation, and Number Theory (LuCaNT) Joint Mathematics Meetings (Boston, MA) The Probability of Non-isomorphic Group Structures of Isogenous Elliptic Curves in Finite Field Extensions - Talk AMS Special Session on Rethinking Number Theory II Conference de théorie des nombres Québec-Maine Computing the Proportion of Sneaky Primes for Pairs of Elliptic Curves - Talk Université Laval PAlmetto Number Theory Scries XXXIV (PANTS 34) Computing the Proportion of Sneaky Primes for Pairs of Elliptic Curves - Talk Université Ornor Ornor Of Sneaky Primes for Pairs of Elliptic Curves - Talk University of North Carolina at Charlotte Joint Mathematics Meetings (Boerver, CO) Asymptotic Distribution of the Partition Crank MAA Undergraduate Student Poster Session "Received Honoruble Mention Shenandoah Undergraduate Mathematics and Statistics Conference (SUMS) Asymptotic Distribution of the Partition Crank - Talk James Madison University Nebraska Conference for Undergraduate Women in Mathematics (NCUWM) Eta-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk University of Nebraska - Lincoln Joint Mathematics Meetings (Baltimore, MD) Stea-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk James Madison University Women in Mathematics in New England Conference (WIMIN) Eta-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk James Madison University Women in Mathematics in New England Conference (WIMIN) Eta-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk James Madison University Women in Mathematics in New England Conference (WIMIN) Eta-Quo	• Kanner Prize for Outstanding Baruch Honors Thesis	2019-2020
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		9/22/18
Elliptic curves with complex multiplication and abelian division fields.	Invited Seminar Talks	
OU TOUR COMPACE ANGION AND CONTRACT OF THE CONTRACT CONTRAC	Elliptic curves with complex multiplication and abelian division fields	

Jan. 23, 2024

Sept. 20, 2023

University of Washington Number Theory Seminar

• Infinitude of the primes, UConn Math Club

 Directed Reading Program, mentor to Sarah Hocutt (project on mathematical cryptography) Directed Reading Program, mentor to Sierra Woods (project on elliptic curves) 	Spring 2023 Spring 2022
MENTORING Directed Reading Programs mentor to South Heautt (project on mothematical asserts graphy)	Qi 000s
• MATH 1131Q Calculus I, Teaching Assistant	Fall 2020
• MATH 1132Q Calculus II, Teaching Assistant	Spring 2021
• MATH 1132Q Calculus II Honors, Teaching Assistant	Fall 2021
• MATH 1132Q Calculus II, Teaching Assistant	Spring 2022
• MATH 1020Q Problem Solving, Instructor	Fall 2022
• UConn Algebra Prelim Tutor	Winter 2022
• MATH 2210Q Applied Linear Algebra, Instructor	Spring 2023
• UConn Algebra Prelim Tutor	Summer 2023
• MATH 1071Q Calculus for Business and Economics, Instructor	Fall 2023
Teaching at UConn	
• Lubin-Tate formal group laws, UConn Number Theory Reading Group	Feb. 26, 2021
• Computing the proportion of sneaky primes for pairs of elliptic curves, UConn Algebra Seminar	Sept. 14, 2022
• Computing the proportion of sneaky primes for pairs of elliptic curves, UConn S.I.G.M.A. Seminar	Sept. 30, 2022
• Computationally hard problems and their uses in cryptography, UConn Math Club	Oct. 5, 2022
• Computing the proportion of sneaky primes for pairs of elliptic curves, Oregon State University Number Theory Seminar (online)	Oct. 18, 2022
• Genus of a modular curve, UConn Number Theory Reading Group	Dec. 2, 2022
• Creating a modular, inquiry-based modeling course, UConn Math Teaching Workshop	Dec. 9, 2022
• Computing the genus of modular curves, UConn Number Theory Reading Group	Dec. 12, 2022
• Computationally hard problems and their uses in cryptography: RSA and DLP, UConn S.I.G.M.A. Seminar	Feb. 17, 2023
• Sums of powers by L'Hopital's rule, UConn Math Club	Feb. 22, 2023
• Computing the proportion of sneaky primes for pairs of elliptic curves with and with unQVNTS (Québec-Vermont Number Theory Seminar) at the University of Vermont	nout CM, March 30, 2023
UConn S.I.G.M.A. Seminar	Sept. 15, 2023

Instructional Schools Attended / Workshops / Summer Programs

• Preliminary Arizona Winter School (PAWS)

Oct. 2 - Nov. 10, 2023

PAWS is a virtual program on topics related to the upcoming AWS. Topic: Elliptic Curves and Abelian Varieties.

• Statistiques Arithmétiques

May 15 - 19, 2023

Conference on Arithmetic Statistics in CIRM, France.

• École de printemps en statistiques arithmétiques

May 8 - 12, 2023

Research school on Arithmetic Statistics in CIRM, France. Courses on Galois representations and statistics, complex multiplication, class field theory, and Frobenius distributions.

• Women In Numbers 6 (WIN6)

March 26 - 31, 2023

Project: Isogenous discriminant twins over number fields.

• Arizona Winter School (AWS)

March 4 - 8, 2023

Study group: Special point problems and their arithmetic.

• Symposium sur la géométrie arithmétique et ses applications (SAGA) Jan. 30 - Feb. 3, 2023 Research school: Introduction to SAGA in CIRM, France. Courses on Galois representations and modular forms, modularity and diophantine applications, local-global principles, and Jacobians and models of curves.

• Preliminary Arizona Winter School (PAWS)

Oct. 3 - Nov. 11, 2022

PAWS is a virtual program on topics related to the upcoming AWS. Topic: Heights in Diophantine geometry.

• PCMI Graduate Summer School, Utah

July 17 - August 6, 2022

Park City Mathematics Institute (PCMI) Graduate Summer School in Number Theory Informed by Computation.

• Rethinking Number Theory 3 (RNT3)

June 20 - July 1, 2022

Virtual workshop. Project on computing the proportion of sneaky primes for pairs of elliptic curves.

• Connecticut Summer School in Number Theory (CTNT)

June 6 - 12, 2022

Participated and helped run both the summer school and conference. Courses on algebraic number theory, local fields, introduction to Galois theory, and the Chebotarev density theorem.

• PCMI Graduate Summer School (Virtual)

July 26-30, 2021

Park City Mathematics Institute (PCMI) Graduate Summer School in Number Theory Informed by Computation.

• Arizona Winter School (AWS)

Spring 2021

AWS Virtual School in Number Theory was a 12 week program featuring four online lecture series (and problem solving sessions) on modular forms, modular groups, an exploration of the p-adic numbers and modular forms, and quadratic forms and the local global principle.

• Connecticut Summer School in Number Theory (CTNT)

June 8 - 12, 2020

Virtual courses on sieves, infinite Galois theory, computations in number theory research, curves over finite fields, and p-adic functions on \mathbb{Z}_p .

• Honors Thesis in Number Theory, Advisor: Andrew Obus

Fall 2019 - Spring 2020

Researched the distribution of the greatest common divisors of Gaussian integers and other quadratic integer rings.

• Number Theory REU at Texas A&M University, Advisor: Riad Masri Summer 2019 Researched and proved the equidistribution of the crank partition function with an effective asymptotic bound on the error. (Paper in the Ramanujan Journal.)

• Number Theory REU at Oregon State University, Advisor: Holly Swisher Summer 2018 Researched modular forms and elliptic curves and produced results for eta-quotients of prime or semiprime level and elliptic curves. (Paper in the Involve Journal.)

Professional Services

• UConn AMS Integration Bee for Undergraduates: Judge

Nov. 17, 2022

An integration bee is like a spelling bee, but students take turns computing integrals instead of spelling words.

• Mathematics Continued Conference (MCC): Organizer

Oct. 22, 2022

The MCC at UConn is aimed at undergraduates to give a glimpse of what graduate school and math research is like.

Professional Activities

• Graduate school panel (moderator), Mathematics Continued Conference

Oct. 22, 2022

• Successful Baruch Alumni Panel (panelist), Baruch College	Nov. 9, 2021
• Graduate school panel (panelist), Mathematics Continued Conference	Oct. 23, 2021
• Preparing for graduate school (panelist), UConn Math Club	April 21, 2021
• Undergraduate math experience (panelist), Baruch Math Club	March 26, 2021
• Undergraduate math research (panelist), UConn Math Club	Nov. 11, 2020

CLUBS/LEADERSHIP

• UConn Number Theory Reading Group (NTRG): Member Summer 2020 – Present We study various topics related to number theory. We have studied the p-adics and p-adic analysis, local class field theory, and units of cyclic cubic number fields. We are currently reading about modular forms and modular curves.

• AWM Baruch Student Chapter: President/Founder Fall 2019 –Spring 2020 Started the Association for Women in Mathematics (AWM) Student Chapter at Baruch, organized events, shared knowledge and experience in math, research, math study abroad programs, internships, and mathematical jobs in industry.

• Baruch Traders Club: Trader

Gained experience and knowledge of financial markets via trading simulations and trading seminars. Competed in various Baruch and intercollegiate trading competitions.

LANGUAGES

- English fluent (U.S. Citizen)
- Greek fluent (Dual Citizen)
- Spanish proficient
- French beginner

Computer Skills

- Magma
- SageMath
- Mathematica
- C++, Java, and Python (novice)