

EDUCATION

University of Connecticut

Ph.D. in Mathematics

Advisor: Álvaro Lozano-Robledo

Storrs, CT

2020–Present

Macaulay Honors at Baruch College

B.A. in Mathematics, GPA: 3.73

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

New York City, NY

2016–2020

Budapest Semesters in Mathematics

Study abroad program

Budapest, Hungary

Spring 2019

RESEARCH INTERESTS

Algebraic number theory and arithmetic geometry.

PUBLICATIONS

1. Asimina Hamakiotes, *The Distribution of the Greatest Common Divisors of Elements in Quadratic Integer Rings*, (2020), https://academicworks.cuny.edu/bb_etds/99/.
2. Asimina Hamakiotes, Aaron Kriegman, and Wei-Lun Tsai, *Asymptotic Distribution of the Partition Crank*, to appear in *Ramanujan Journal* (2021), <https://arxiv.org/abs/1909.12806>.
3. 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. <https://arxiv.org/abs/1901.10511>.

AWARDS

- Graduate Fellowship for STEM Diversity (\$20,000 annually) 2022 - Present
- CLAS Course Improvement Mini Grant (\$1,500) August 2022
(Created a module for an inquiry-based mathematical modeling course.)
- NCAA Woman of the Year Semifinals 2019–2020
- Kanner Prize for Outstanding Baruch Honors Thesis 2019–2020
- CUNY Athletic Conference Female Scholar-Athlete of the Year 2019–2020
- Dr. Jane Katz Academic, Athletics, and Community Service Award 2019–2020
- Meyer Scholar Recipient, Merit Based Scholarship (\$4,000) 2018
- 2nd place in Traders@MIT (largest algorithmic collegiate trading competition) 2017

INVITED TALKS

- **Bing. Uni. Graduate Combinatorics, Algebra, and Topology Conference (BUGCAT)** 11/5/22 - 11/6/22
Computing the Proportion of Sneaky Primes for Pairs of Elliptic Curves - Talk
Binghamton University

- **Conférence de théorie des nombres Québec-Maine** 10/15/22 - 10/16/22
Computing the Proportion of Sneaky Primes for Pairs of Elliptic Curves - Talk
Université Laval
- **Palmetto Number Theory Series XXXIV (PANTS 34)** 9/24/22 - 9/25/22
Computing the Proportion of Sneaky Primes for Pairs of Elliptic Curves - Talk
University of North Carolina at Charlotte
- **Joint Mathematics Meetings, Denver** 1/15/20 - 1/18/20
Asymptotic Distribution of the Partition Crank
MAA Undergraduate Student Poster Session **Received Honorable Mention*
- **Shenandoah Undergraduate Mathematics and Statistics Conference (SUMS)** 9/21/19
Asymptotic Distribution of the Partition Crank - Talk
James Madison University
- **Nebraska Conference for Undergraduate Women in Mathematics (NCUWM)** 1/25/19 - 1/27/19
Eta-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk
University of Nebraska - Lincoln
- **Joint Mathematics Meetings, Baltimore** 1/16/19 - 1/19/19
Eta-Quotients of Prime or Semiprime Level and Elliptic Curves
MAA Undergraduate Student Poster Session
- **Shenandoah Undergraduate Mathematics and Statistics Conference (SUMS)** 10/13/18
Eta-Quotients of Prime/Semiprime Level and Elliptic Curves - Talk
James Madison University
- **Women in Mathematics in New England Conference (WIMIN)** 9/22/18
Eta-Quotients of Prime or Semiprime Level and Elliptic Curves - Talk
Smith College

SEMINAR TALKS

- **Computing the proportion of sneaky primes for pairs of elliptic curves,** Oct. 18, 2022
Oregon State University Number Theory Seminar
- **Computationally hard problems and their uses in cryptography,** Oct. 5, 2022
UConn Math Club
- **Computing the proportion of sneaky primes for pairs of elliptic curves,** Sept. 30, 2022
UConn S.I.G.M.A. Seminar
- **Computing the proportion of sneaky primes for pairs of elliptic curves,** Sept. 14, 2022
UConn Algebra Seminar
- **Lubin-Tate formal group laws,** Feb. 26, 2021
UConn Number Theory Reading Group

TEACHING

- MATH 2210Q Applied Linear Algebra, Instructor Spring 2023
- MATH 1020Q Problem Solving, Instructor Fall 2022
- MATH 1132Q Calculus II, Teaching Assistant Spring 2022
- MATH 1132Q Calculus II Honors, Teaching Assistant Fall 2021
- MATH 1132Q Calculus II, Teaching Assistant Spring 2021
- MATH 1131Q Calculus I, Teaching Assistant Fall 2020

MENTORING

- Directed Reading Program, mentor to Sierra Woods (project on elliptic curves) Spring 2022

INSTRUCTIONAL SCHOOLS ATTENDED / WORKSHOPS

- **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** 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
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.
- **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.
- **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

- **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

- **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 class field theory. 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

Spring 2017 –Spring 2018

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 - novice

COMPUTER SKILLS

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