

Dylan Costa

 [dylan-costa.github.io/](https://github.com/dylan-costa) |  Email: dylan.costa@uconn.edu

RESEARCH INTERESTS

My research interests are in Algebraic Number Theory and Arithmetic Geometry. Specifically, my interests surround the topics of elliptic curves, modular curves, and Galois representations attached to abelian varieties.

EDUCATION

2021 - present	University of Connecticut, Ph.D in Mathematics Research Advisor: Alvaro Lozano-Robledo	(GPA: 3.8/4.0)
2017 - 2021	Ithaca College, BA in Mathematics with Honors Research Advisors: Emilie Wiesner, Ted Galanthay	(GPA: 3.97/4.0)

INVITED TALKS

Rank Growth of Elliptic Curves over Quadratic Extensions Graduate Research Forum, University of Connecticut	January 2025
On ℓ -adic Images of Galois Attached to Elliptic Curves over the Rationals General Exam Presentation, University of Connecticut	November 2024
On The Euclidean Embedding and Adeles/Ideles of a Number Field Number Theory Seminar, University of Connecticut	October 2024
Construction of High Rank Elliptic Curves over Quadratic Fields Number Theory Seminar, University of Connecticut	April 2024
Elliptic Curves and their Applications Mathematics Continued Conference, University of Connecticut	March 2024
On Meromorphic Differentials and Riemann-Roch Number Theory Seminar, University of Connecticut	April 2023

TEACHING EXPERIENCE

MATH 1071: Calculus for Business and Economics Spring 2025, Spring 2024, Fall 2023	Instructor of Record
MATH 2110: Multivariable Calculus Summer 2024, Fall 2024	Graduate Teaching Assistant
MATH 1132: Calculus II Spring 2023, Summer 2023, Fall 2022, Summer 2022, Spring 2022	Graduate Teaching Assistant
MATH 1071: Calculus I Fall 2021	Graduate Teaching Assistant

RELEVANT SKILLS

Programming	MAGMA, SAGE, Java (advanced), Python, MATLAB (intermediate), HTML (novice)
Software	Latex, Office Programs (Excel), Google Programs (Sheets)