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Jesse Eli Franklin

Education

International Baccalaureate High School Degree, Summa Cum Laude, 2016.

B.A. Mathematics, University of Colorado Boulder, Magna Cum Laude 2019.

Ph.D. Mathematics, University of Vermont, May 2024.

Employment

Salt Lake Community College — Adjunct Faculty (Fall 2024)

University of Vermont — Graduate Teaching Assistant (2019 − 2024):
Five years of instruction of courses for non-math majors, including syllabus/course planning, all lecturing and creation of exams.

Research

(preprint) The Geometry of Drinfeld Modular Forms — arXiv: 2310.19623
Under Review at Journal of Number Theory.

(preprint) Section Rings of Q-divisors on Genus 1 Curves — arXiv: 2312.15128 — joint work with Evan O'Dorney and Michael Cerchia.
Under Review at Mathematical Research Letters.

(Thesis) Computing the Canonical Ring of Certain Stacks
Available Upon Request.

(preprint) On Drinfeld modular curves for SL(2) — arXiv:2408.00198 —joint work with Mihran Papikian and Sheng-Yang Kevin Ho.

Academic Awards

In both May 2023 and May 2024 I received the John F. Kenney award for "Excellence in Mathematics" from the University of Vermont.

References/Advisors

Dr. Christelle Vincent, Assistant Professor University of Vermont. christelle.vincent@uvm.edu
Dr. Taylor Dupuy, Associate Professor University of Vermont. taylor.dupuy@uvm.edu
Dr. Nat Thiem, Associate Professor University of Colorado at Boulder. nathaniel.thiem@colorado.edu

Conferences/Seminars

University of Vermont Algebraic Number Theory seminar (unQVNTS) — organizer for 2022-2024
Park City Mathematics Institute (PCMI) 2022 — Teaching Assistant to the Undergraduate Summer School program
Explicit Computations with Stacks AMS MRC June 2023 — participant
AGNES @UPenn October 2023 — poster presentation
Dartmouth-UVM Math Day February 2024 — contributed talk