

## 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, Spring 2025):  
*(Introduction to Statistics; College Algebra; Quantitative Reasoning; Business Precalculus)*

Lumos Solar — SEO Manager (Current).

University of Vermont — Graduate Teaching Assistant (2019 – 2024):  
*Five years of instruction including syllabus/course planning, all lecturing and creation of exams. (Calc 1, Precalc and Applications of Finite Math courses)*

## Papers

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

(preprint) Section Rings of  $\mathbb{Q}$ -divisors on Genus 1 Curves — arXiv: 2312.15128 — Joint work with Evan O’Dorney and Michael Cerchia. Under review at Algebra and Number Theory.

(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. Under review at International Journal of Mathematics.

## 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](mailto:christelle.vincent@uvm.edu)

Dr. Taylor Dupuy, Associate Professor University of Vermont. [taylor.dupuy@uvm.edu](mailto:taylor.dupuy@uvm.edu)

Dr. John Voight, Professor of Mathematics, University of Sydney. [jvoight@gmail.com](mailto:jvoight@gmail.com)

Ron McKay, Dean of Mathematics, Salt Lake Community College. [ronald.mckay@slcc.edu](mailto:ronald.mckay@slcc.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 on Cryptography

Explicit Computations with Stacks AMS MRC; June 2023 — Participant

AGNES @UPenn; October 2023 — Poster

Dartmouth-UVM Math Day; February 2024 — Contributed Talk

University of Utah Number Theory/Representation Theory Seminar; November 2024 - Invited speaker