

Samuel Spellman

phone: 216-386-4441

email: sspellman@albany.edu

URL: https://s-spellman.github.io/s_spellmansite/

Current position

Instructor of Mathematics, State University of New York at Albany

Areas of specialization

Algebraic Combinatorics • Representation Theory

Education

2012-2015 B.A in Mathematics, Colorado College

2017-2019 M.S in Mathematics, University of New Hampshire

2019-2024 PHD in Mathematics, State University of New York at Albany

Advisor: [Cristian Lenart](#)

Dissertation: “A Combinatorial Model for Affine Demazure Crystals of Levels Zero and One”

Teaching

2024 Calculus II, Instructor of record.

2022 and 2023 Calculus I, Instructor of record.

2022 Statistics, Instructor of record.

2021 and 2024 Precalculus, Instructor of record.

2018 Discrete Mathematics, Teaching assistant. (Led twice a week practice sessions)

Certifications, honors, and awards

2023 Lumen Circles: belonging and inclusive teaching certificate

Publications and conference talks

ARTICLES

- 2024 Spellman, S. and Lenart, C. "On Combinatorial Models for Affine Demazure Crystals of Levels Zero and One". Extended abstract to be submitted to *Conference on Formal Power Series and Algebraic Combinatorics 2025*
- 2024 Spellman, S. "A Combinatorial Model for Affine Demazure Crystals of Levels Zero and One" (2024). Electronic Theses and Dissertations, <https://scholarsarchive.library.albany.edu/etd/28>

INVITED TALKS AND PRESENTATIONS

- 2024 "A combinatorial model for affine Demazure crystals of levels one and zero".
AMS Fall Sectional Special Sessions: Symmetric Functions and Applications, Albany, NY
- 2023 "Combinatorial models for type A specialized non-symmetric Macdonald polynomials and affine Demazure crystals".
Graduate Student Conference in Combinatorics 2023, St. Louis, MO
- 2023 "Combinatorial models in the representation theory of affine Lie algebras". Spring 2023. Poster presentation at *Women in Algebra and Combinatorics Conference, University at Albany, Albany, NY*