

Sam Spellman

PHD CANDIDATE · MATHEMATICS

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Education

State University of New York at Albany

PHD IN MATHEMATICS

- Advisor: Dr. Cristian Lenart

Albany, NY

09/2019 - present

University of New Hampshire

MS IN MATHEMATICS

Durham, NH

09/2017 - 05/2019

Colorado College

BA IN MATHEMATICS

- Undergrad research advisor: Dr. Marlow Andersen

Colorado Springs, CO

09/2011 - 05/2015

Professional Experience

2019- **Graduate Assistant/Lecturer**, Dept. of Mathematics, University at Albany

2017-2019 **Teaching Assistant**, University of New Hampshire

2016-2017 **Data Analyst in Oncology Research**, University Hospitals, Cleveland OH

2015-2016 **Audio/Visual Technician**, Colorado College

Publications

IN REVIEW

On Combinatorial Models for Affine Demazure Crystals of Levels Zero and One
(Conference on Formal Power Series and Algebraic Combinatorics 2024)

IN PREP

Combinatorial Models for Affine Demazure Crystals and a Crystal Isomorphism in Type A
(PhD Thesis)

Presentations

INVITED TALKS

Spring 2023. *Combinatorial Models for Type A Specialized Non-symmetric Macdonald Polynomials and Affine Demazure Crystals*. Invited talk: Graduate Student Conference in Combinatorics 2023, St. Louis, MO

POSTER PRESENTATIONS

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

Teaching Experience

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| Fall 2018 and Spring 2019 | Finite Mathematics , Teaching Assistant | <i>University of New Hampshire</i> |
| Spring 2021, Fall 2021, and Fall 2023 | Calculus I , Instructor | <i>University at Albany</i> |
| Spring 2024 | Calculus II , Instructor | <i>University at Albany</i> |
| Spring 2022 | Statistics , Instructor | <i>University at Albany</i> |