

EDUCATION

Rutgers University

Ph.D. candidate, Advisor: Daniel Krashen

New Brunswick, NJ
2017–Expected May 2023

Wesleyan University

BA in Mathematics and Chemistry, GPA: 4.0/4.0

Middletown, CT
2012–2016

– Graduated with Honors

RESEARCH INTERESTS

I am broadly interested in arithmetic geometry, and understanding the relationship between algebraic objects over a field, such as division algebras, and the arithmetic properties of that field. Currently I am investigating the admissibility of groups over semi-global fields through the use of field patching techniques.

THESIS WORK

“On the Admissibility of Finite Groups over Semi-Global Fields in the Bad Characteristic Case”, in preparation.

TALKS

- **Admissibility of Groups over Semi-Global Fields in the Bad Characteristic Case** October 2022
Rutgers Algebra Seminar
- **Admissibility of Groups: An Application of Field Patching** May 2022
Graduate Student Conference in Algebra, Geometry, and Topology at Temple University
- **Exploring the Admissibility of Groups and an Application of Field Patching** April 2022
Rutgers Algebra Seminar
- **Admissibility Problems for Finite Groups** February 2022
Rutgers Graduate Algebra and Representation Theory Seminar
- **Hunting for Division Algebras in Representations of Finite Groups** October 2021
Rutgers Graduate Algebra and Representation Theory Seminar

AWARDS

- AMS Rutgers Student Chapter Award for Leadership 2022
- Rutgers TA Teaching Excellence Award Spring 2020
- Rice Prize, awarded for excellence in mathematics 2016
- Phi Beta Kappa Spring 2016

TEACHING

Instructor of Record at Rutgers

- 01:640:300 Introduction to Mathematical Reasoning Summer 2022
In person course which I structured to include group work and guided reading.
- 16:186:857 Introduction to Online and Hybrid Teaching Spring 2022, Spring 2021
Online course for graduate students across different departments.
- 01:640:300 Introduction to Mathematical Reasoning Summer 2020
Online course which I structured to include group work and oral exams.
- 01:640:123 Preparation for Calculus I Spring 2020
8-week, flipped-format course designed to review prerequisite topics for success in calculus.

TA at Rutgers

- 01:640:291 Honors Calculus III Fall 2021
- 01:640:251 Multivariable Calculus Spring 2021
online
- 01:640:250 Introductory Linear Algebra Fall 2019
- 01:640:151 Calculus I for the Mathematical and Physical Sciences Spring 2019
- 01:640:152 Calculus II for the Mathematical and Physical Sciences Fall 2018

Directed Reading Program Mentor at Rutgers (Spring 2020)

Mentored an undergraduate student in reading about identities involving sums of squares.

ATTENDED CONFERENCES

- **The 14th Brauer Group Conference** June 2022
Israel
- **Motivic Homotopy session of the Graduate Summer School** July 2021
IAS/Park City Mathematics Institute (virtual)
- **ALGAR Summer School: Algebra and Arithmetic** July 2020
University of Antwerp (virtual)
- **ALGAR Summer School: Algebras with Involution** July 2019
University of Antwerp, Belgium
- **The 13th Brauer Group Conference** June 2018
Colorado
- **Graduate Student Conference in Algebra, Geometry, and Topology** June 2018
Temple University, Philadelphia
- **Northeastern Conference on Research in Undergraduate Mathematics Education** 2017-2022
Montclair State University, Rutgers University, and Virtually. Attended 5 of the past 6 years.

SERVICE AND OTHER ACTIVITIES

- Program Coordinator, Rutgers TA Project 2020–Current
Organize annual university-wide TA orientation program and lead pedagogy workshops for a broad audience of graduate TAs from different department on topic such as “Engaging a Quiet Classroom”, “Supporting Students with Diverse Academic Preparation”, and “The Role of the TA”.
- Co-Organizer, Rutgers Math Teaching Seminar 2019–Current
- Fellow, Rutgers Academy for the Scholarship of Teaching and Learning 2019–Current
A selective group of graduate students, faculty, and administrators across the university which meets monthly to review undergraduate instructional practices and issues related to the scholarship of teaching and learning.
- Co-Founder and Vice President, Association for Women in Mathematics Rutgers Chapter 2018–2022
- Head TA, Rutgers Math Department Summer 2020
Conducted observations of other graduate student instructors and provided feedback and support.
- Panelist, Workshop on Math Advice and Networking at the University of Pennsylvania 2019
Participated in a panel on graduate student life at an event for undergraduate women.
- TA Orientation Leader 2019
Lead a session in the University-wide orientation for incoming Math and Statistics graduate students on discipline specific teaching practices.
- Co-Organizer, Rutgers Pizza Seminar 2018–2019