

Research Interests

Commutative algebra, homological algebra, and symbolic powers of ideals

Education

2021 - **Ph.D. in Mathematics**, *University of Nebraska-Lincoln*, Expected 2027
Advised by Eloísa Grifo

2021 **M.S. in Mathematics**, *Missouri State University*

2019 **B.S. in Applied Mathematics**, *Missouri State University*
Minor in Computer Science, with courses in Database Systems and Machine Learning

Seminar Talks

Oct 2023 **The Power of Symbolic Powers in Commutative Algebra**, *University of Nebraska-Lincoln*

Presented to the Commutative Algebra Reading Seminar

Nov 2021 **Using Finite Fields to Construct Error-Correcting Cyclic Codes**, *University of Nebraska-Lincoln*

A slightly updated version of previous work, presented to the Graduate Student Seminar

Apr 2021 **Using Finite Fields to Construct Error-Correcting Cyclic Codes**, *Missouri State University*

Presented to the Mathematics Department as completion of Master's Degree Research Requirement

Conferences/Workshops Attended

Jan 2024 **Introductory Workshop: Commutative Algebra**, *SLMath (formerly MSRI)*

Nov 2023 **Gender Equity in the Mathematical Study (GEMS) of Commutative Algebra**, *University of Minnesota*

Apr 2023 **Math 125**, *University of Nebraska-Lincoln*

Jan 2019 **Nebraska Conference for Undergraduate Women in Mathematics**, *University of Nebraska-Lincoln*

Positions Held

- 2021 - **Graduate Teaching Assistant**, *University of Nebraska-Lincoln*
- 2023 **Graduate Research Assistant**, *University of Nebraska-Lincoln*
Curriculum Development for College Trigonometry
Curriculum Development and Instructor for College of Engineering Summer Bridge Program, a program to help incoming first-year undergraduate Engineering majors succeed in their math courses
- 2019-2021 **Graduate Teaching Assistant**, *Missouri State University*

Teaching Experience

Associate Convener

Math 102: College Trigonometry, *University of Nebraska-Lincoln*

Responsible for coordinating all sections of College Trigonometry and supporting graduate student instructors

Fall 2023 - Spring 2024

Instructor of Record

Math 102: College Trigonometry, *University of Nebraska-Lincoln*

Spring 2023, Fall 2023, Spring 2024

Math 101: College Algebra, *University of Nebraska-Lincoln*

Summer 2022, Fall 2022

Recitation/Lab Instructor

Math 106: Calculus I, *University of Nebraska-Lincoln*

Fall 2021, Spring 2022

MTH 101: Intermediate Algebra, *Missouri State University*

Fall 2019, Spring 2020, Fall 2020, Spring 2021

Professional Development

- 2022-2023 **Teaching and Learning Mathematics at the Post-Secondary Level Parts I and II**, *University of Nebraska-Lincoln*

A three-credit sequence of courses intended to train mathematics graduate teaching assistants how to be an effective teacher and classroom manager

Service and Outreach

- 2023 - **Member of the NCUWM Committee**
Nebraska Conference for Undergraduate Women in Mathematics is a conference for undergraduates that provides opportunities to present undergraduate research and connect with other young women mathematicians.
- 2023 **Graduate Student Orientation Leader**, *University of Nebraska-Lincoln*
- 2021 - **UNL Math Day Volunteer**
Math Day is an annual event for secondary students to participate in mathematical activities/competitions.



Computer Skills

Languages

C++, HTML, Python, Perl, SQL

Software

LaTeX, Macaulay2, Mathematica, MATLAB, Microsoft Office