

Xinyu Xie

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RESEARCH INTERESTS

Commutative Algebra, Algebraic Geometry, and Math Education.

EDUCATION

University of Nebraska-Lincoln, Lincoln, USA August 2023 — current
Master of science: Mathematics

Lawrence University, Appleton, USA September 2019 — June 2023
Bachelor of Mathematics

TEACHING EXPERIENCES

Instructor of record University of Nebraska-Lincoln, NE

- *Math 103, College Algebra and Trigonometry* Spring 2026
- *Math 101P, College Algebra plus foundations* Fall 2025
- *Math 203, Contemporary Mathematics* Fall 2024, Spring 2025

Teaching Assistant University of Nebraska-Lincoln, NE

- *Math 104, Calculus* Spring 2024, Fall 2023
- *Chinese 101, 102, 201, 202, Lawrence University* Fall 2020 - Spring 2023

Tutor Lawrence University, WI

- *Chinese and Math* Fall 2020 - Spring 2023

Mentor University of Nebraska-Lincoln, NE

- *Directed Reading program* Spring 2025

TALKS

- **An introduction to Algebra with Straightening Law** University of Nebraska-Lincoln
April 2026.
- **Resultants: from 2 to $n+1$** University of Nebraska-Lincoln
November 2025, joint with Cleve Young.
- **An introduction to resultants** University of Nebraska-Lincoln
August 2025.
- **Symmetric Union Presentation and Beta Invariant** Pi Mu Epsilon Conference, St. Norbert College, De Pere, Wisconsin
November 2022.
- **An Exploration of the Major Themes in Restoration and 18th Century Comedies** Lawrence University, Wisconsin
May 2021, joint with Emma Bergholz and Madison Layton.

SERVICE

- **Graduate Student Association** University of Nebraska-Lincoln, NE
Representative June 2025 — June 2026
- **Math Day** Lincoln, NE
volunteer January-February 2024, 2025, 2026

- **NCUWM conference** Lincoln, NE
volunteer January-February 2024, 2025, 2026
- **Association of Women in Mathematics, Lawrence University chapter** Lawrence University, WI
Member, president 2023 Winter term September 2020 — June 2023
- **Lambda Sigma Honor Society, Lawrence chapter** Lawrence University, WI
Recording Secretary & Reporting Secretary September 2020 — June 2021

PUBLICATIONS

Journal paper

- Ben Clingenpeel, Zongzheng Dai, Gabriel Diraviam, Kareem Jaber, Krishnendu Kar, Ziyun Liu, Teo Micklethun, Haritha Nagampoozhy, Michael Perry, Moses Samuelson-Lynn, Eli Seamans, Ana Wright, **Nicole Xie**, Ruiqi Zou, Alexander Zupan. Colorings of symmetric unions and partial knots. *Journal of Knot Theory and Its Ramifications*, 35(2026), Article 2550094. <https://doi.org/10.1142/S0218216525500944>.
In following I brought one example
- Rachel Funk, Leilani Pai, Johan Benedict Cristobal, and **Xinyu Xie**. "I've Had to Show a Lot of Tenacity:" Stories of Power and Empowerment in the Experiences and Identities of S-STEM Women Scholars. (Under Review)

WORKSHOPS & CONFERENCES ATTENDED

Workshops

- Koala (Kentucky–Ohio Algebra Alliance), University of Kentucky, Lexington, KY, May 11th - 12th, 2026.
- 2025 Summer CAMP, University of Nebraska-Lincoln, August, 2025.
- UNL search committee training, November 2024, University of Nebraska-Lincoln East Campus.
- Undergraduate Geometry and Topology Workshop, University of Notre Dame, South Bend, IN, August 1st, 2022 – August 5th, 2022.

Conferences

- CA+ conference, Iowa State University, Ames, IA, March 28-29, 2026.
- KUMUNU conference, Columbia, MO, Oct 25-26, 2025.
- Urica (Upcoming researchers in Commutative Algebra), University of Nebraska-Lincoln, May 3rd - 4th, 2025.
- Rayfest (a conference for Ray Heitmann's retirement), University of Nebraska-Lincoln, April, 2025.

AWARDS

- Summa Cum Laude with Honors, Phi Beta Kappa** Lawrence University, WI
August 2022
- Phi Beta Kappa of Gamma-Delta of Wisconsin at Lawrence University** Lawrence University, WI
June 2023
- Dean's list** Lawrence University, WI
August, 2019-2020, 2020-2021