

Ryan Watson

Curriculum Vitae

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Education

2022–Present	University of Nebraska-Lincoln PhD Candidate in Mathematics Advised by Eloísa Grifo
2022–2023	University of Nebraska-Lincoln M.S. in Mathematics
2020–2022	University of California, Riverside PhD Student - Passed Qualifying Exams
2015–2019	University of California, Los Angeles B.S. Double Major in Mathematics and Statistics

Appointments

Spring 2024	SLMath Program Associate
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Research Interests

Broadly speaking, I am interested in commutative algebra and homological algebra and their intersections with algebraic geometry.

Talks and Presentations

October 2024	UNL Commutative Algebra Reading Seminar: <i>On a Resolution of Eisenbud and Shamash</i>
July 2024	UNL Commutative Algebra Reading Seminar: <i>Support Varieties (In Commutative Algebra)</i> (This was a three part lecture series.)
March 2024	SLMath COMA/NAG Joint Graduate Student Seminar: <i>Cohomological Support Varieties and the Derived Category of a Complete Intersection</i>
September 2023	UNL Commutative Algebra Seminar: <i>A Classification of Complete Intersections using Differential Graded Algebras</i>
May 2023	UNL Commutative Algebra Reading Seminar: <i>Differential Graded Algebras and Tate Resolutions</i>
December 2022	UNL Commutative Algebra Reading Seminar: <i>An Introduction to Sheaves and Their Stalks</i>

Conferences and Events Organized

2024 – 2025	Co-organizer of URiCA 2025
2024 – 2025	Co-organizer of the UNL Directed Reading Program
2023 – 2024	Co-organizer of URiCA 2024
2023 – 2024	Co-organizer of the UNL Directed Reading Program
2022 – 2023	Co-organizer of URiCA 2023

Teaching Experience

Instructor, *University of Nebraska-Lincoln*

Summer 2024	Math 208 – Calculus III
Spring 2023	Math 203 – Contemporary Math
Fall 2022	Math 100A – Intermediate Algebra

Teaching Assistant, *University of Nebraska-Lincoln*

Fall 2024	Math 208 – Calculus III
Fall 2023	Math 208 – Calculus III

Teaching Assistant, *University of California, Riverside*

Spring 2022	Math 031 – Applied Linear Algebra
Winter 2022	Math 009B – First Year Calculus
Winter 2022	Math 010B – Calculus of Several Variables
Winter 2022	Math 011 – Discrete Structures
Fall 2021	Math 006B – Intro to College Math
Fall 2021	Math 011 – Discrete Structures
Fall 2021	Math 046 – Intro to ODEs
Winter 2021	MATH 022 – Calculus for Business Majors
Winter 2021	Math 131 – Linear Algebra 1
Fall 2020	MATH 009A – First Year Calculus
Fall 2020	MATH 149A – Probability and Mathematical Statistics

Outreach/Service

Fall 2024	Served on the second year math task force. This committee works on developing and improving the calculus III, differential equations, and linear algebra courses at UNL.
Fall 2024	Led a directed reading project with an undergraduate student at UNL.
Spring 2024	Was the social activities representative for program associates at SLMATH.
Spring 2024	Led a directed reading project with an undergraduate student at UNL.
Fall 2023	Led a directed reading project with an undergraduate student at UNL.
Spring 2023	Led a directed reading project with an undergraduate student at UNL.
Winter 2023	Volunteered for the Nebraska Conference for Undergraduate Women in Mathematics.
Fall 2022	Led a directed reading project with an undergraduate student at UNL.

Conferences/Programs Attended

September 2024	Betti Numbers in Commutative Algebra and Equivariant Homotopy Theory in Bielefeld, Germany
June 2024	Rank Conjectures Across Algebra and Topology in Copenhagen, Denmark
April 2024	Recent Developments in Commutative Algebra at SLMATH
January 2024	Introductory Workshop: Commutative Algebra at SLMATH
January 2024	Connections Workshop: Commutative Algebra at SLMATH
September 2023	KUMUNU in Columbia, Missouri
August 2023	BrianFest in Lincoln, Nebraska
August 2023	CAMP (Commutative Algebra Market Preparedness) in Lincoln, Nebraska
June 2023	MSRI/SLMATH Summer School at Notre Dame
May 2023	URiCA in Lincoln, Nebraska
April 2023	CA+ in Minneapolis, Minnesota
October 2022	KUMUNU in Lincoln, Nebraska
June 2022	Pan-American School in Commutative Algebra in Guanajuato, Mexico
