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[My author arXiv page](#)

Education

2023–Present	University of Nebraska-Lincoln PhD Candidate in Mathematics Advised by Eloísa Grifo and Jack Jeffries
2023–2025	University of Nebraska Lincoln MS in Mathematics
2021–2023	Indian Institute of Technology Madras M.Sc. in Mathematics
2016–2019	Ramakrishna Mission Vivekananda College, Chennai B.Sc. in Mathematics

Research Interests

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

Papers

1. The arithmetic rank of the residual intersections of a complete intersection ideal, with Manav Batavia, Taylor Murray, and Vaibhav Pandey, 20 pp., arXiv:2510.17049

Honors and Awards

2023 - 2025	UNL Chancellor's Fellowship
2022 - 2023	IITM Merit Scholarship

External Talks and Presentations

December 2025	IITM Mathematics Special Seminar: <i>The arithmetic rank of residual intersections of a complete intersection ideal</i>
November 2025	Purdue Student Algebra Seminar: <i>Lifting systems for finite length modules</i>
October 2025	Colegio De Matemàticos Del Peru: <i>The arithmetic rank of residual intersections of a complete intersection ideal</i>

Internal Talks and Presentations

December 2025	UNL Cohomology Club: <i>An introduction to Čech cohomology</i>
October 2025	UNL Graduate Student Seminar: <i>Algebras with a Straightening Law</i>
October 2025	UNL Commutative Algebra Seminar: <i>The arithmetic rank of residual intersections of a complete intersection ideal</i>
September 2025	UNL Commutative Algebra Reading Seminar: <i>A stratification by F-pure threshold</i>
July 2025	UNL Commutative Algebra Reading Seminar: <i>Measuring singularities with Frobenius</i>
May 2025	UNL Commutative Algebra Reading Seminar: <i>Arithmetic rank and cohomological dimension in commutative algebra</i>
March 2025	UNL Graduate Student Seminar: <i>DG algebra resolutions</i>
March 2025	UNL Big CMinar: <i>Direct summand conjecture in mixed characteristic</i>
July 2024	UNL Commutative Algebra Reading Seminar: <i>A Zariski-Nagata theorem for smooth \mathbb{Z}-algebras</i>
June 2024	UNL Commutative Algebra Reading Seminar: <i>An introduction to symbolic powers</i>
February 2024	UNL Commutative Algebra Reading Seminar: <i>Adams operations in commutative algebra</i>
September 2023	UNL Graduate Student Seminar: <i>An introduction to Schur polynomials</i>
June 2023	IITM Commutative Algebra Student Seminar: <i>An introduction to homological algebra</i>
May 2023	IITM Student Seminar: <i>Linear algebraic groups</i>

Outreach/Service

February 2023	Co-organizer of a school and undergraduate students outreach program FORAYS 2023 in IIT Madras, Chennai, India
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Seminars and Events Organized

Spring 2026	Co-organizer of UNL Commutative Algebra and Adjacent Book-club Session
2025 - 2026	Co-organizer of Virtual Commutative Algebra and Algebraic Geometry Seminar
2025 - 2026	Co-organizer of UNL Directed Reading Program
Fall 2025	Co-organizer of UNL Cohomology Club
Summer 2025	Co-organizer of the UNL Summer Commutative Algebra Reading Seminar
Summer 2024	Co-organizer of the UNL Summer Commutative Algebra Reading Seminar
Spring 2024	Co-organizer of the UNL Commutative Algebra Reading Seminar
Summer 2023	Co-organizer of the IITM Commutative Algebra Student Seminar

Teaching Experience

Instructor of record, *University of Nebraska, Lincoln*

Fall 2025	Math 103 – College Algebra and Trigonometry
Spring 2025	Math 102 – Trigonometry
Fall 2024	Math 102 – Trigonometry

Teaching Assistant, *University of Nebraska, Lincoln*

Spring 2026	Math 208 – Calculus III
Summer 2024	Math 106 – Calculus I
Spring 2024	Math 107 – Calculus II
Fall 2023	Math 106 – Calculus I

Conferences/Programs Attended

December 2025	PL - Commutative algebra and modular representation theory in Chennai, India
October 2025	KUMUNU in Columbia, Missouri
October 2025	AMS Fall Central Sectional Meeting in Saint Louis, Missouri
August 2025	Summer CAMP 2.0 (Commutative Algebra Market Preparedness) in Lincoln, Nebraska
June 2025	Singularities in Algebra and Geometry in Guanajuato, Mexico
June 2025	An Introduction to Recent Trends in Commutative Algebra in Toronto, Canada
May 2025	URiCA (Upcoming Researchers in Commutative Algebra) in Lincoln, Nebraska
April 2025	Rayfest in Lincoln, Nebraska
March 2025	Commutative algebra in mixed characteristic in Lincoln, Nebraska
December 2024	AIS - Cohomology of Commutative Algebras in Chennai, India
September 2024	KUMUNU in Columbia, Missouri
July 2024	BRIDGES in Salt Lake City, Utah
May 2024	URiCA (Upcoming Researchers in Commutative Algebra) in Lincoln, Nebraska
April 2024	Recent Developments in Commutative Algebra in MSRI/SLMath, Berkeley, California
April 2024	TAGS: Syzygies over Texas in College Station, Texas
January 2024	Introductory Workshop: Commutative Algebra in MSRI/SLMath, Berkeley, California
January 2024	Connections Workshop: Commutative Algebra in MSRI/SLMath, Berkeley, California
November 2023	GEMS in Minneapolis, Minnesota
October 2023	AMS Sectional Meeting in Omaha, Nebraska
September 2023	KUMUNU in Columbia, Missouri
August 2023	BrianFest in Lincoln, Nebraska
August 2023	Summer CAMP (Commutative Algebra Market Preparedness) in Lincoln, Nebraska
