

Aryaman Maithani | Curriculum Vitae

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Education

University of Utah <i>Ph.D. student in Mathematics</i> Advisor: Anurag K. Singh	Salt Lake City, UT 2022–present
Indian Institute of Technology Bombay <i>B.S. in Mathematics with Honors</i>	Mumbai, India 2018–2022

Awards

Institute Gold Medal	IIT Bombay 2022
Institute Academic Prize	IIT Bombay 2020–21

Research Interests

Commutative Algebra.

Papers

- *Powers of Edge Ideals of Graphs with Minimal Cellular Resolutions*, with Trung Chau and Tài Huy Hà, [arXiv:2404.00438](https://arxiv.org/abs/2404.00438). Submitted. (2024)
- *Linear quotients of connected ideals of graphs*, with H. Ananthnarayan and Omkar Javadekar, [arXiv:2401.01046](https://arxiv.org/abs/2401.01046). Submitted. (2024)

Conferences and Workshops Attended

Singularities in Ann Arbor	University of Michigan May 2024
Recent Developments in Commutative Algebra	SLMath, Berkeley April 2024
Math For All	University of Utah April 2024
SLAM	University of Oklahoma February 2024
Introductory Workshop: Commutative Algebra	SLMath, Berkeley January 2024
KUMUNU	University of Missouri September 2023
Cohen-Macaulay Simplicial Complexes in Graph Theory	CMI, India June 2023
Math For All	University of Utah February 2023

Talks

Seminars.....

Commutative Algebra Seminar	University of Utah
Linear quotients of connected ideals of graphs	March 2024
Dualities in Topology and Algebra	ICTS, India
Gorenstein Rings	May 2023

Graduate Student Seminars.....

BIKES, Commutative Algebra Graduate Student Seminar	University of Utah
Linear quotients of connected ideals of graphs	February 2024
Commutative Algebra Graduate Student Seminar	University of Michigan
Invariant Theory of Commutative Rings	October 2023
BIKES, Commutative Algebra Graduate Student Seminar	University of Utah
Invariant Theory of Commutative Rings	September 2023

General Math Talks.....

Graduate Student Colloquium	University of Utah
Shut your π hole!	March 2024
Math Circle	University of Utah
Fun with Graphs	March 2023
Graduate Student Colloquium	University of Utah
Chaos Theory	February 2023

Teaching Experience

Instructor of Record.....

MATH 1220: Calculus II	
University of Utah	Summer 2024
MATH 1090: Business Algebra	
University of Utah	Spring 2024
MATH 1060: Trigonometry	
University of Utah	Fall 2023
MATH 1010: Intermediate Algebra	
University of Utah	Summer 2023

Graduate Teaching Assistant.....

MATH 2250: Differential Equations and Linear Algebra	
University of Utah	Spring 2023, Fall 2022

Grader for Graduate Courses.....

MATH 6520: Algebraic Topology	
University of Utah	Spring 2024
MATH 6310: Modern Algebra 1	
University of Utah	Fall 2023

Service/Outreach

- **University of Utah** **Salt Lake City, Utah, USA**
 - Graduate Student Advisory Committee*
 - 2023–2024: **Recruitment committee.**
Welcoming prospective graduate students and organizing meetings with faculty for them.

Professional Memberships

- American Mathematical Society

Technical skills

Python, Sage, Macaulay2, Magma, \LaTeX