

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. Ananthnarayanan 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 Linear quotients of connected ideals of graphs	University of Utah March 2024
Dualities in Topology and Algebra <i>Gorenstein Rings</i>	ICTS, India May 2023

Graduate Student Seminars.....

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

General Math Talks.....

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

Teaching Experience

Instructor of Record.....

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

Graduate Teaching Assistant.....

MATH 2250: Differential Equations and Linear Algebra <i>University of Utah</i>	Spring 2023, Fall 2022
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Grader for Graduate Courses.....

MATH 6520: Algebraic Topology <i>University of Utah</i>	Spring 2024
MATH 6310: Modern Algebra 1 <i>University of Utah</i>	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, L^AT_EX