

Abhishek Koparde

Contact Information

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Department of Mathematics
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Research Interests

Algebraic Geometry
In particular: Moduli of Curves, Point counting, Sieve techniques.

Education

The University of Texas at Austin

Ph.D. in Mathematics (*August 2022 - Ongoing*)

Indian Institute of Science Education and Research (IISER), Pune

BS-MS dual degree in Mathematics with distinction (*August 2017 - May 2022*)

Mentoring

Directed Reading Program, University of Texas at Austin

Fall 2024	Topic: Sums of Squares
Spring 2024	Topic: Arithmetic of Elliptic Curves
Fall 2023	Topic: Plane Algebraic Curves and Bezout's Theorem

Teaching Experience

Graduate Teaching Assistant, University of Texas at Austin

Spring 2025	Probability I (M362K) (1 Section)
Spring 2024	Linear Algebra and Matrix Theory (M341) (2 Sections)
Fall 2023	Differential and Integral Calculus (M408C) (2 Sections)
Spring 2023	Discrete Mathematics (M325K) (2 Sections)
Fall 2022	Sequences, Series, and Multivariable Calculus (M408D) (2 Sections)

Contributed Talks

Sept 2024	Counting Points on Curves (Junior Geometry Seminar)
Mar 2024	The Grothendieck Ring of Varieties (Junior Geometry Seminar)
Sept 2023	Bott Periodicity (K-Theory learning seminar)
Sept 2023	Riemann-Roch and Division Algebras (Junior Geometry seminar)

Honors and Awards

Summer, Fall 2024	Graduate Research Assistant, University of Texas at Austin
2017-2022	INSPIRE Scholarship, Department of Science and Technology, Government of India

Conferences Attended

Nov 2023	Western Algebraic Geometry Symposium, University of Arizona
Nov 2024	Algebraic Geometry Northeastern Series, Dartmouth College
Oct 2024	Tropical Geometry: Moduli Spaces and Matroids, Goethe University Frankfurt
Apr 2024	Texas Algebraic Geometry Symposium, Texas A&M University
Mar 2024	Algebraic Geometry Northeastern Series, Boston College
Nov 2023	Western Algebraic Geometry Symposium, Washington University in St. Louis
Jun 2023	Arithmetic, Birational Geometry and Moduli Spaces, Brown University
Apr 2023	Western Algebraic Geometry Symposium, University of Washington, Seattle
Nov 2022	Algebraic Geometry Northeastern Series, University of Massachusetts, Amherst
Nov 2022	Western Algebraic Geometry Symposium, University of California, Riverside
Oct 2022	Texas Algebraic Geometry Symposium, Texas A&M University
May 2022	Workshop on Intersection Theory, IIT Bombay

Languages	Technical:	Python, L ^A T _E X
	Verbal:	English, Marathi (Native), Hindi