

EDUCATION	University of Pennsylvania Ph.D., Mathematics Title: <i>Admissibility over Global Fields</i> Advisor: Prof. David Harbater	Philadelphia, PA Aug 2019 – May 2024 (Expected)
	University of Pennsylvania M.S.E., Computer & Information Science (GPA 4.0/4.0)	Philadelphia, PA Aug 2017 – May 2019
	Indian Institute of Technology Delhi B.Tech., Computer Science & Engineering	New Delhi, India Jul 2010 – May 2014
PUBLICATIONS	“Admissible Groups over Global Fields”. [pdf file of the preprint]	
	“Enhanced integrated gradients: improving interpretability of deep learning models using splicing codes as a case study”, with A. Jha, J. Aicher, and Y. Barash. <i>Genome Biology</i> , Vol. 21 (2020), pp. 1–22.	
	“Automating Relevance Banding in e-Commerce Search using Click Model”, with V. Deolalikar. <i>IEEE International Conference on Big Data</i> , 2018, pp. 3793–3797.	
	“Islands of Interest: Mining Concentrations of User Search Intent over e-Commerce Product Categories”, with N. Pradhan and V. Deolalikar. <i>IEEE International Conference on Big Data</i> , 2018, pp. 3717–3722.	
AWARDS AND FELLOWSHIPS	Benjamin Franklin Fellowship University of Pennsylvania	2019–2024
	Certificate in College and University Teaching Penn Center for Teaching and Learning	Fall 2023
	Good Teaching Award University of Pennsylvania Mathematics Department	Spring 2021
	Fellowship in Computer Science University of Pennsylvania	2017–2019
	MHRD scholarship Government of India	2010–2014
TEACHING	University of Pennsylvania <i>Instructor of Record</i> , Math-1410 Calculus II	Philadelphia, PA Summer 2023
	Princeton Prison Teaching Initiative Volunteer math instructor for South Woods State Prison in New Jersey. <i>Tutor</i> , MATH 020 Algebra <i>Co-Instructor</i> , Math in the Courtroom	Spring 2023 – Present Spring 2024 Spring 2023
	Penn Pre-First Year Program Program for first generation, low-income undergraduate students.	Philadelphia, PA

	<i>Teaching Assistant, Math-A Pre-Calculus</i>	Summer 2023
	University of Pennsylvania	Philadelphia, PA
	<i>Teaching Assistant, Math 3610 Advanced Calculus II</i>	Spring 2024
	<i>Teaching Assistant, Math 360 Advanced Calculus I</i>	Fall 2021
	<i>Teaching Assistant, Math 509 Honors Analysis II</i>	Spring 2021
	<i>Teaching Assistant, Math 240 Calculus III</i>	Fall 2020
	Penn Directed Reading Program	Fall 2021 – Present
	Mentor for the following undergraduate reading projects:	
	<i>Number Theory</i> , Molly Bradley	Spring 2024
	<i>Quadratic Reciprocity</i> , Angela Cai	Fall 2023
	<i>Algebraic Curves</i> , Max Wang	Spring 2023
	<i>Probabilistic Methods</i> , Max Wang	Fall 2022
	<i>Covering Spaces</i> , Kevin You	Fall 2021
SERVICE AND FACILITATION	Penn Graduate Algebraic Geometry Seminar	Fall 2022 - Present
	Co-organizer of the student algebraic geometry seminar with A. Kwon and E. Lennen.	
	Patching in Arithmetic Geometry	Spring 2022
	Co-organizer of the graduate student seminar on patching methods in arithmetic geometry.	
	Math Circles	Summer 2023 - Present
	Co-organizer of the Math Circles at the West Philadelphia High School with M. Ong.	
TALKS	Penn Algebra Seminar	
	<i>Admissibility over number fields</i>	Spring 2024
	Penn Graduate Algebraic Geometry Seminar	
	<i>Rational points and the Brauer-Manin set</i>	Spring 2024
	<i>An introduction to Étale cohomology</i>	Spring 2023
	<i>Admissibility over \mathbb{Q}</i>	Fall 2022
	Patching in Arithmetic Geometry	
	<i>Patching division algebras over semi-global fields</i>	Spring 2022
	Expository Talks	
	<i>Grothendieck topologies and cohomology</i>	Spring 2024
	<i>Milnor K-theory</i>	Spring 2022
	<i>Numerical invariants and stability on algebraic stacks</i>	Fall 2021
	<i>Introduction to spectral sequences</i>	Spring 2021
SELECTED CONFERENCES & SEMINARS	VaNTAGe Seminar	Fall 2023 - Present
	Arizona Winter School 2024: Abelian Varieties	Spring 2024
	Algebraic Geometry Northeastern Section (AGNeS)	Fall 2023
	Arizona Winter School 2022: Automorphic Forms Beyond GL2	Spring 2022
WORK EXPERIENCE	Groupon	Palo Alto, CA
	Data Scientist, <i>Search & Data Mining team</i>	Oct 2015 – June 2017
	Groupon	Chennai, India
	Data Scientist, <i>Data Science team</i>	Jun 2014 – Sep 2015

