

Deependra Singh
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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	Admissibility over Global Fields, In preparation.	
	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>Co-Instructor</i> , Math in the Courtroom	Spring 2023 – Present Spring 2023

	Penn Pre-First Year Program Program for first generation, low-income undergraduate students. <i>Teaching Assistant</i> , Math-A Pre-Calculus	Philadelphia, PA Summer 2023
	University of Pennsylvania <i>Teaching Assistant</i> , Math 3610 Advanced Calculus II <i>Teaching Assistant</i> , Math 360 Advanced Calculus I <i>Teaching Assistant</i> , Math 509 Honors Analysis II <i>Teaching Assistant</i> , Math 240 Calculus III	Philadelphia, PA Spring 2024 Fall 2021 Spring 2021 Fall 2020
	Penn Directed Reading Program Mentor for the following undergraduate reading projects: <i>Quadratic Reciprocity</i> , Angela Cai <i>Algebraic Curves</i> , Max Wang <i>Probabilistic Methods</i> , Max Wang <i>Covering Spaces</i> , Kevin You	Fall 2021 – Present Fall 2023 Spring 2023 Fall 2022 Fall 2021
SERVICE AND FACILITATION	Penn Graduate Algebraic Geometry Seminar Co-organizer of the student algebraic geometry seminar with Andrew Kwon and Emmett Lennen.	Fall 2022 - Present
	Patching in Arithmetic Geometry Co-organizer of the graduate student seminar on patching methods in arithmetic geometry.	Spring 2022
	Math Circles Co-organizer of the Math Circles at the West Philadelphia High School with Marielle Ong.	Summer 2023 - Present
TALKS	Algebra Seminar <i>Admissibility over number fields</i>	Spring 2024
	Penn Graduate Algebraic Geometry Seminar <i>An introduction to Étale cohomology</i> <i>Admissibility over \mathbb{Q}</i>	Spring 2023 Fall 2022
	Patching in Arithmetic Geometry <i>Patching division algebras over semi-global fields</i>	Spring 2022
WORK EXPERIENCE	Groupon Data Scientist, <i>Search & Data Mining team</i>	Palo Alto, CA Oct 2015 – June 2017
	Groupon Data Scientist, <i>Data Science team</i>	Chennai, India Jun 2014 – Sep 2015