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| EDUCATION | University of Pennsylvania Ph.D., Mathematics | Philadelphia, PA 2019 – 2024 (Expected) |
| | Title: <i>Admissible Groups over Global Fields</i> Advisor: Prof. David Harbater | |
| | University of Pennsylvania M.S.E., Computer & Information Science (GPA 4.0/4.0) | Philadelphia, PA 2017 – 2019 |
| PUBLICATIONS | Indian Institute of Technology Delhi B.Tech., Computer Science & Engineering | New Delhi, India 2010 – 2014 |
| | “Admissible groups over global fields”. 2024 manuscript, available at deependra230.github.io/pdf/-admissibility.pdf | |
| | “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 |
| | Penn Pre-First Year Program Program for first generation, low-income undergraduate students. | Philadelphia, PA |
| | • <i>Instructor of Record</i> , Math-C Pre-Calculus | Summer 2024 (scheduled) |

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| | <ul style="list-style-type: none"> • <i>Teaching Assistant</i>, Math-A Pre-Calculus | Summer 2023 |
| | Princeton Prison Teaching Initiative Volunteer math instructor for South Woods State Prison in New Jersey. | Spring 2023 – Present |
| | <ul style="list-style-type: none"> • <i>Tutor</i>, MATH 020 Algebra | Spring 2024 |
| | <ul style="list-style-type: none"> • <i>Co-Instructor</i>, Math in the Courtroom | Spring 2023 |
| | University of Pennsylvania | Philadelphia, PA |
| | <ul style="list-style-type: none"> • <i>Teaching Assistant</i>, Math 3610 Advanced Calculus II | Spring 2024 |
| | <ul style="list-style-type: none"> • <i>Teaching Assistant</i>, Math 3610 Advanced Calculus II | Spring 2024 |
| | <ul style="list-style-type: none"> • <i>Teaching Assistant</i>, Math 360 Advanced Calculus I | Fall 2021 |
| | <ul style="list-style-type: none"> • <i>Teaching Assistant</i>, Math 509 Honors Analysis II | Spring 2021 |
| | <ul style="list-style-type: none"> • <i>Teaching Assistant</i>, Math 240 Calculus III | Fall 2020 |
| | Penn Directed Reading Program Mentor for the following undergraduate reading projects: | Fall 2021 – Present |
| | <ul style="list-style-type: none"> • <i>Number Theory</i>, Molly Bradley | Spring 2024 |
| | <ul style="list-style-type: none"> • <i>Quadratic Reciprocity</i>, Angela Cai | Fall 2023 |
| | <ul style="list-style-type: none"> • <i>Algebraic Curves</i>, Max Wang | Spring 2023 |
| | <ul style="list-style-type: none"> • <i>Probabilistic Methods</i>, Max Wang | Fall 2022 |
| | <ul style="list-style-type: none"> • <i>Covering Spaces</i>, Kevin You | Fall 2021 |
| SERVICE AND FACILITATION | Penn Graduate Algebraic Geometry Seminar Co-organizer of the student algebraic geometry seminar with A. Kwon and E. 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 M. Ong. | Summer 2023 - Present |
| TALKS | Graduate Student Conference in Algebra, Geometry, and Topology | |
| | <ul style="list-style-type: none"> • <i>Admissible groups over number fields</i> | Summer 2024 (scheduled) |
| | Penn Algebra Seminar | |
| | <ul style="list-style-type: none"> • <i>Admissibility over number fields</i> | Spring 2024 |
| | Penn Graduate Algebraic Geometry Seminar | |
| | <ul style="list-style-type: none"> • <i>Rational points on varieties and the Brauer-Manin set</i> | Spring 2024 |
| | <ul style="list-style-type: none"> • <i>An introduction to Étale cohomology</i> | Spring 2023 |
| | <ul style="list-style-type: none"> • <i>Admissibility over \mathbb{Q}</i> | Fall 2022 |
| | Patching in Arithmetic Geometry | |
| | <ul style="list-style-type: none"> • <i>Patching division algebras over semi-global fields</i> | Spring 2022 |
| | Expository Talks | |
| | <ul style="list-style-type: none"> • <i>Grothendieck topologies and cohomology</i> | Spring 2024 |

- *Milnor K-theory* Spring 2022
- *Numerical invariants and stability on algebraic stacks* Fall 2021
- *Introduction to spectral sequences* Spring 2021

SELECTED
CONFERENCES
& SEMINARS

- The Mordell conjecture 100 years later Summer 2024 (scheduled)
- Graduate Student Conference in Algebra, Geometry, and Topology Summer 2024 (scheduled)
- 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, *Search & Data Mining team* Oct 2015 – June 2017

Groupon Chennai, India
Data Scientist, *Data Science team* Jun 2014 – Sep 2015