

Education

- 2021–2025 **University of Warwick**,
PhD in Mathematics.
Supervisor: Prof. David Loeffler.
- 2019–2021 **Leiden University & University of Regensburg**,
M.Sc. in Mathematics, Summa Cum Laude .
Algebra, Geometry and Number Theory (ALGANT) program
Master's thesis advisor: Prof. Johannes Sprang.
- 2015–2019 **National University of Singapore**,
B.Sc.(Hons) in Mathematics.
Honours with Highest Distinction
Undergraduate thesis advisor: Prof. Wee Teck Gan .

Papers and preprints

- 2024 *Control Theorems for Hilbert Modular Varieties*, preprint, [arXiv:2403.04738](https://arxiv.org/abs/2403.04738)
- 2023 *Euler Product Asymptotics for L -functions of Elliptic Curves*, preprint, [arXiv:2312.05236](https://arxiv.org/abs/2312.05236)

Awards & Scholarships

- March 2024 **Nominated for the 2024 Warwick Awards for Teaching Excellence.**
- Feb. 2023 **Nominated for the 2023 Warwick Awards for Teaching Excellence.**
- 2021–2025 **European Research Council (ERC) Scholarship**, (part of Prof. David Loeffler's ERC grant 'Shimura Varieties and the Birch–Swinnerton-Dyer Conjecture').
- 2020–2021 **ALGANT Scholarship**, awarded by the ALGANT consortium for master's studies in the ALGANT program.
- 2015 **Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship**, awarded by the Ministry of Science & Technology, Government of India (not availed).

Talks at research seminars and conferences

- August 2022 **p -adic variation of the Asai–Flach Euler system**, Number Theory seminar, Indian Institute of Science, Bengaluru, India.
- June 2022 **p -adic variation of the Asai–Flach Euler system**, Summer School on Motives and Arithmetic Groups, Strasbourg, France.
- March 2022 **p -adic variation of Euler systems**, London Junior Number Theory seminar, Kings College London, London, UK.

Teaching

- Jan–March 2024 Teaching Assistant for the courses MA3E1 *Groups and Representations* and MA426 *Elliptic Curves* at the University of Warwick.
- Oct–Dec 2023 Teaching Assistant for the courses MA3D5 *Galois Theory* and MA4L6 *Analytic Number Theory* at the University of Warwick.
- Jan–March 2023 Teaching Assistant for the courses MA3D5 *Galois Theory* and MA426 *Elliptic Curves* at the University of Warwick.

- Oct-Dec 2022 Teaching Assistant for the courses MA3A6 *Algebraic Number Theory* and MA4L6 *Analytic Number Theory* at the University of Warwick.
- Jan-March 2022 Teaching Assistant for the course MA257 *Introduction to Number Theory* at the University of Warwick.
- Oct-Dec 2021 Teaching Assistant for the course MA3A6 *Algebraic Number Theory* at the University of Warwick.

Conferences attended

- March 2023 **Spring School on Non-Archimedean Geometry & Eigenvarieties**, *Universität Heidelberg*, Heidelberg, Germany.
- Sep 2022 **Elliptic curves and modular forms in arithmetic geometry**, *Università degli Studi di Milano*, Milan, Italy.
- Sep 2022 **School on Arithmetic Geometry**, *Universität Duisburg-Essen*, Essen, Germany.
- Aug 2022 **Elliptic curves and the special values of L -functions**, *International Centre for Theoretical Sciences (ICTS)*, Bengaluru, India.
- July 2022 **ICM Sectional Workshop on Number Theory and Algebraic Geometry**, *ETH Zürich*, Zürich, Switzerland.
- June 2022 **Galois Representations, Automorphic Forms and L-Functions**, *Centre International de Rencontres Mathématiques*, Marseille, France.
- June 2022 **Summer School on Motives and Arithmetic Groups**, *Institut de recherche mathématique avancée*, Strasbourg, France.
- Aug 2021 **Elliptic curves and the special values of L -functions**, *International Centre for Theoretical Sciences (online)*.
- Sep 2020 **Virtual Heidelberg Laureate Forum, Traversing Separation**.
- July 2019 **HKU International Conference of Undergraduate Research in Science**, *University of Hong-Kong*, Hong-Kong.

Languages

Gujarati (mother tongue), English (fluent), Hindi (fluent), Sanskrit (basic).

Hobbies

Tennis, Indian classical music (harmonium and tabla), reading.