Arshay Sheth

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🔖 *arshaysheth.github.io*

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 .

Research visits

May 2024	**Université Sorbonne Paris Nord**, Host: Dr. Matteo Tamiozzo

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Papers and preprints

2024	*Euler Products at the Centre and Applications to Chebyshev's Bias*, preprint, `arXiv:2405.01512`
2024	*Control Theorems for Hilbert Modular Varieties*, preprint, `arXiv:2403.04738`
2023	*Euler Product Asymptotics for L-functions of Elliptic Curves*, preprint, `arXiv: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.