

Aniruddha Sudarshan

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Philadelphia

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🌐 aniruddhasudarshan.github.io

Education

- 2022–present **Ph.D.**, *Mathematics*, Temple University, Philadelphia
- 2018–2021 **MS**, *Mathematics*, Indian Institute of Science Education and Research, Bhopal
Thesis: *Some applications of the Chebotarev density theorem* (Advised by Jyoti Prakash Saha)
- 2015–2018 **BSc**, *Mathematics, Physics, and Computer Science*, Jain University

Research Interests

Galois representations, modular forms, elliptic curves, Bruhat–Tits buildings

Publications/Preprints

- **On some local properties of sequences of big Galois representations** (with Jyoti Prakash Saha). *Journal of Number Theory*, 264:295–306, 2024.

Teaching Experience

Temple University

Summer 2026	Calculus I	<i>Instructor</i>
Fall 2024, 2025	Mathematics for the Basic World	<i>Instructor</i>
Spring 2024	Introduction to Modern Algebra	<i>Teaching Assistant</i>
Fall 2023	Lab for Calculus I	<i>Teaching Assistant</i>
Summer 2023	Precalculus	<i>Instructor</i>
Spring 2023	Modern Algebra II and Advanced Calculus II	<i>Teaching Assistant</i>
Fall 2022	Differential Equations I	<i>Teaching Assistant</i>

IISER Bhopal

Spring 2021, 2022	Probability and Statistics	<i>Teaching Assistant</i>
Fall 2020, 2021	Introduction to Groups and Symmetries	<i>Teaching Assistant</i>

Conferences and Workshops attended

2026

- ICM Philadelphia
- Automorphic Forms: Arithmetic And Representation Theoretical Aspects ICTS, Bengaluru
- MPS Conference on The Eisenstein Ideal and Galois Representations: Looking Forward after 50 Years New York

2025

- Automorphic Forms and the Bloch–Kato Conjecture ICTS, Bengaluru
- Iwasawa Theory Taipei Summer School Taipei City
- Iwasawa 2025 Taipei City

2024

- Arizona Winter School University of Arizona, Tuscon
- Modular Forms, L-functions, and Eigenvarieties: ENS, Paris
a conference in memoriam of Joël Bellaïche
- Arithmetic and p -adic geometry in Chile (Summer School) Santiago, Chile

2023

- Symposium on Arithmetic Geometry and its Applications (Workshop) CIRM, Marseille
- Representation Theory, L-functions, and Arithmetic University of Pittsburgh

Awards

- Prime Minister Research Fellow IISER Bhopal
- Jay Novik Endowed Graduate Fellowship Temple University

Skills

$\text{\LaTeX}$ (proficient), MAGMA (beginner), sagemath (beginner).

Languages

Reading, writing, and speaking competencies for **English, Hindi, Kannada**. Speaking competency for **Tamil**.