

Aniruddha Sudarshan

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Citizenship: Indian

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, Bengaluru

Research Interests

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

Publications/Preprints

- **Symplectic extension graphs and Ribet's lemma** (In preparation)
- **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 attended

2026

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

2025

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

Invited and Contributed Talks

Symplectic extension graphs and Ribet's lemma
Fall 2026 Philadelphia Area Number Theory Seminar Temple University

Awards

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

Service and Outreach

2026 ICM Math festival Exhibit Organizer
2026 Sofya Kovalevskaya Day Volunteer
2023, 2024, GTA Philadelphia Organizer
2026

Skills

LaTeX, MAGMA, SageMath.

Languages

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