

# Aniruddha Sudarshan

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🌐 <https://aniruddhasudarshan.github.io/>

## Education

- 2022 – Present      📚 **Ph.D., Temple University** in Mathematics.
- 2018 – 2021      📚 **MS, Indian Institute of Science Education and Research, Bhopal** in Mathematics.  
Thesis title: *On some applications of the Chebotarev density theorem.*  
Supervised by Jyoti Prakash Saha.
- 2015 – 2018      📚 **B.Sc., Jain University** in Mathematics, Physics, and Computer Science.

## Research Interests

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

## Publications

- 1 J. P. Saha and A. Sudarshan, “On some local properties of sequences of big Galois representations,” *Journal of Number Theory*, vol. 264, pp. 295–306, 2024, ISSN: 0022-314X. ⚡ DOI:  
<https://doi.org/10.1016/j.jnt.2024.05.012>.

## Skills

- Languages      📚 Reading, writing, and speaking competencies for **English, Hindi, Kannada**. Speaking competency for **Tamil**.
- Misc.      📚 Sketching & Painting, Music (Instrumental Veena), Sports (Cricket, Tennis, Baseball, ...).

## Teaching Experience

### At Temple University

- Fall 2024, 2025      📚 **Mathematics for the Basic World**, Instructor.
- Spring 2024      📚 **Introduction to Modern Algebra**, Teaching Assistant.
- Fall 2023      📚 **Lab for Calculus I**, Teaching Assistant.
- Summer 2023      📚 **Precalculus**, Instructor.
- Spring 2023      📚 **Modern Algebra II and Advanced Calculus II**, Teaching Assistant.
- Fall 2022      📚 **Differential Equations I**, Teaching Assistant.

### At IISER Bhopal

- Spring 2021, 2022      📚 **Probability and Statistics**. Teaching Assistant.
- Fall 2020, 2021      📚 **Introduction to Groups and Symmetries**. Teaching Assistant.

## Conferences/Workshops attended

- 2019      📚 Number Theory Symposium, IIT Gandhinagar
- 2021      📚 Elliptic Curves and the special values of L-functions (ONLINE), ICTS

## **Conferences/Workshops attended (continued)**

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- 2023       Representation Theory, L-functions, and Arithmetic, University of Pittsburgh
- 2024       Arizona Winter School, University of Arizona  
 Modular Forms, L-functions, and Eigenvarieties: a conference in memoriam of Joël Bellaïche, ENS, Paris, France  
 Arithmetic and  $p$ -adic geometry in Chile (Summer School), Santiago, Chile.
- 2025       Iwasawa Theory Taipei Summer School, Taipei, Taiwan.  
 Iwasawa 2025, Taipei, Taiwan.

## **Awards**

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### **Indian Institute of Science Education and Research, Bhopal**

2021-2022       Prime Minister Research Fellow (PMRF).

### **Temple University**

2022-present       Jay Novik Endowed Graduate Fellowship.

## **References**

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**Dr. Jaclyn Lang**      Selma Lee Bloch Brown Professor, Temple University

**Dr. Jyoti Prakash Saha**      Assistant Professor, Indian Institute of Science Education and Research, Bhopal