

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 Univesity

- 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)

- 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

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

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

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