

Sampurna Pal

Research Interest

Analytic Number Theory, L-functions, Automorphic Forms, Delta Method, Subconvexity problem

Education

2019-present **PhD in Mathematics**, *Indian Statistical Institute*, Kolkata.

Advisor: Prof. Ritabrata Munshi

2017–2019 **Master of Mathematics**, *Indian Statistical Institute*, Bangalore.

Grade: 82.7%

2013–2017 **Bachelor of Engineering, ETCE**, *IIST, Shibpur*.

CGPA: 8.9

2013 **Higher Secondary**, *WBCHSE*.

Grade: 89%

Publication and Preprints

- Second Moment of Degree Three L -functions, [2212.14620v2] (submitted)

Invited Talks

- Subconvexity of $GL(3) \times GL(2)$ L -functions in $GL(3)$ level aspect, Automorphic forms in Budapest, Renyi Institute (August 2024)
- Second moment of degree three L -functions, Conference on Analytic Number Theory, ISI, Kolkata (February 2023)

Editorial Services

- Refereed article for Acta Mathematica Hungarica

Teaching Experience

- Teaching assistant for Modular Forms, ISI Kolkata (Odd Semester 2023)
- Teaching assistant for Advanced Number Theory, ISI Kolkata (Even Semester 2024)

Conferences and Workshops

- Circle method and related topics, ICTS, Bengaluru (October 2024)
- Discussion meeting in Analytic Number Theory, ISI, Kolkata (January 2024)

- NCM workshop on Elliptic Curves, Elliptic Functions and Transcendence, HRI, Prayagraj (December 2023)
- Conference on Analytic Number Theory, ISI, Kolkata (February 2023)
- Conference on Analytic Number Theory, ISI, Kolkata (July 2022)
- L-functions, Circle-Method and Applications (Hybrid), ICTS, Bangalore (June 2022)
- NCM workshop on Modular Forms, IIT, Guwahati (December 2020)
- Zariski-dense subgroups and number-theoretic techniques in Lie groups and geometry (Online), ICTS, Bangalore (July 2020)

Achievements

- Secured AIR 7 in Joint CSIR-UGC NET examination, December 2018
- Secured AIR 9 in Joint CSIR-UGC NET examination, June 2018
- Secured AIR 13 in Joint Admission Test for M.Sc. 2017