Sayandeep Sarkar

Lockett 280, Loisiana State University, Baton Rouge, LA 70803 — ■ ssarka9@lsu.edu

Graduate student (PhD), Department of Mathematics, Louisiana State University.

Interests

Boltzmann Equation, Kinetic theory, Elliptic and Parabolic Differential Equations, Mathematical Physics

Education

Louisiana State University Ph.D. in Mathematics	2024- 4.09
Indian Institute of Technology, Kanpur Masters of Science (2-yr) in Mathematics	2022-2024 8.8/10
Ramakrishna Mission Vidyamandira Bachelor of Science in Mathematics	2019-2022 9.34/10

Experience

Grading/Tutoring Math 1552 (Analytic Geometry and Calculus II)	Sp 2025
Math 1550-5 (Differential and Integral Calculus) Math 1552 (Analytic Geometry and Calculus II)	F 2024

Subject matter expert at Chegg Inc.

2022-2024

Dissertations, Projects

Indian Institute of Technology, Kanpur

▼ Integral solution for electromagnetic scattering problem Prof. Akash Anand

♥ Schauder Estimate of Elliptic PDEsProf. Adi Adimurthi

Ramakrishna Mission Vidyamandira

f W Wormhole solution on f(R) gravity theory Prof. Saugata Mitra

Technical Skills

Familiar with the programming languages Matlab, Python, C++(GSL).

Talks

Fractional Laplacian on water wave model and crystal dislocation model IIT Kanpur

ullet Density of $C_0^\infty(\mathbb{R}^n)$ in $W^{s,p}(\mathbb{R}^n)$ IIT Kanpur

Conferences, Workshops, Seminers, Talks, Summer Schools

- ₱ Attended workshop on "Geometry, Analysis, Mathematical Physics" held at NISER Bhubaneswar, from 24th July to 2nd August, 2023
- ₱ Presented paper entitled "Tensor Calculus and its Application in Wormhole Geome- try", in Department of Mathematics, Ramakrishna Mission Vidyamandira, on 4th June, 2022.
- ₱ Participated in presentation competition in Ramakrishna Mission Vidyamandira, held in 2022 on applied mathematics (topic: wormhole), organized by department of mathematics, Ramakrishna Mission Vidyamandira.
- ₱ Participated in the Mathematical Training and Talent Search Program in 2021, held online.

Awards, Achievements

- ₩ INSPIRE scholar since 2019 to 2024.
- ♥ Qualified GATE (2024) with AIR 418.
- ♥ Qualified CSIR-NET JRF (June 2022) with AIR 159.
- # Awarded with Aryabhata silver medal from Ramakrishna Mission Vidyamandira for securing 2nd rank in B.Sc.
- ♥ Qualified JAM 2022, with AIR 1164.
- 母 Qualified JEE mains, WBJEE in 2019.

⁰Last edited on March 24, 2025