Bikram Pal BS-MS

D207-NH, IISER Kolkata, 741246, IN

(+91) 8001413516
bp23ms109@iiserkol.ac.in
sites.google.com/iiserkol.ac.in/bikrampal

EDUCATION

Indian Institute of Science Education and Research, Kolkata Kolkata, India
Integrated BS-MS in Mathematics and Statistics 2023 - 2028 *(expected)*
- CGPA : 9.72 (Ranked 1 in Batch)
- SGPA : 1st Sem : 9.69, 2nd Sem : 9.57, 3rd Sem : 9.89

Birbhum Zilla School Birbhum, India
Higher Secondary Education 2021 - 2023
- Studied Mathematics, Statistics, Physics & Chemistry
- Percentage : 96.8%

RESEARCH INTEREST

Mathematics : Analysis and Number Theory.
Statistics : Probability Theory and Stochastic Processes.
Mathematical Physics : Chaos, Fractals and Turbulence.

RESEARCH EXPERIENCE

Undergraduate Researcher, University of Calcutta
Status : Ongoing
Supervisor : Dr. Uttam Ghosh 2025.01 - present

- Discretization of partial differential equations.
- Anlytically solving non-linear partial differential equations.
- Looking forward to publish the obtained results.

Academic Visitor, International Center for Theoretical Sciences, Bengaluru
Status : Ongoing
Supervisor : Dr. Samriddhi Sankar Ray 2024.12 - present

- Understanding effects in solution of PDEs due to non-linearity.
- Utilizing Python and MATLAB for computational modeling and analysis.

Summer Intern, Indian Institute of Technology Kharagpur
Project Title : Computational Stochastic Processes
Supervisor : Dr. Buddhananda Banerjee 2024.05 - 2024.07

- Explored applications of Markov chains in real-world systems.
- Conducted simulation to find probability of each step of a 10×10 snake ladder game.

Summer Student, HBCSE-TIFR Mumbai
Participant of NIUS 20.1 Batch of Physics
Enrichment camp to excite undergrad students about basic sciences 2024.06

- Attended talks and learned about research of renowned scientists of the country.
- Introduced to cryptography, quantum computing and neural networks.

SKILLS

Languages: English, Bengali, Hindi.

Programming: `Python`, `R`, `MATLAB`.

Typing: LaTeX, Typst, Vim.

Plotting: `Matplotlib`, Origin, Gnuplot.

Operating Systems: Linux(Ubuntu), Windows, Mac.

AWARDS AND HONORS	• **NIUS 2024 Scholar,** Was one of the 70 students who were selected for NIUS camp, all across India.	2024
	• **DST Inspire Scholar,** Awarded Top 1% students of India in Academia.	2023
	• **Ranked 13th,** among 700k students in +2 examination.	2023
	• **Valedictorian,** Birbhum Zilla School, Class of 2023, awarded for outstanding academic performance.	2023
	• **Swami Vivekananda Merit Cum Means Scholarship,** Awarded to students for higher education.	2018
	• **Ranked 5th,** Participated and secured top 5 rank in ADTM (Achievement Cum Diagnostic Test in Mathematics) conducted by CPSM (Centre for Pedagogical Studies in Mathematics), West Bengal.	2018

POSITION OF RESPONSIBILITY	**Core Committee Member**: Identity : Maths Club of IISER Kolkata	present
	Content Writer: Identity : Maths Club of IISER Kolkata	2024
	School Captain: BkTPP Prabir Sengupta Vidyalaya, Birbhum	2018-2020

EXTRA-CURRICULAR	• Participated and Won 'Special Mention' in Model United Nations 2024 organised by Lit Club of IISER Kolkata.	2024
	• Won IISER Kolkata Cricket Tournament.	2024
	• Participated and Won Multiple State Level (Three) Debate Competition organised by West Bengal Co-operative Society & Election Commission of West Bengal.	2021-2022
	• Participated and Won Subdivisional Youth Science Fair Competition organised by Govt. of India.	2019