Roshan Mathew Philip

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SUMMARY

Physics Int MSc student, focused on rigour; eager to apply knowledge and skills gained through coursework and extracurricular activities to an internship or project. Committed to continuous learning.

RESEARCH INTERESTS

Mathematical Physics, Quantum Foundations

EXPERIENCE

Internships

- Linear Dynamical Systems
 Guide: Anupam Pal Choudhury, SMS, NISER (anupampcmath@niser.ac.in),
 Summer 2023
 An initial but rigorous foray into linear dynamical systems and bifurcations.
- Non-Linear Dynamics and Chaos
 Guide: Sayantani Bhattacharya, SPS, NISER (sayanta@niser.ac.in),
 Summer 2023
 Bifurcations, hysteresis and other phenomenons in 2-D systems, rudimentary analysis of higher dimensional non-linear systems. Numerical analysis of the parameter space of the Lorenz Equations.

SKILLS

- Programming Languages:
 - Python
 - Rust
- Softwares:
 - Git
 - Linux
 - LATEX

- Extra Courses (mostly self-studied):
 - Basics of Group Theory (currently studying)
 - Point-set Topology (currently studying)

PROJECTS

- Defining a Metric on the Set of Images
- A homework project for my metric spaces course.

EDUCATION

National Institute of Science Education and Research, Bhubaneswar, Odisha, India Integrated MSc 2022–Current

- Currently in fourth semester
- CGPA: 9.41

Chavara Public School

Kottayam, Kerala, India

CBSE Class XII 2022

- 96.4% with Physics, Mathematics, Computer Science, Chemistry

St. Jude's Global School

Kottayam, Kerala, India

CBSE Class X 2020

-96.6%

Extracurricular Activities

- Core Comittee Member of Physics Club, NISER
- Core Comittee Member of Coding Club, NISER
- Part of tournament organising committee, Chess Club, NISER FIDE rating of 1470.
- Piano
 Merit in Grade 5 Exam, Trinity School of Music, London.
- GM of a Dungeons & Dragons Campaign.

SCHOLARSHIPS AND AWARDS

- Innovation in Science Pursuit for Inspired Research (INSPIRE)
 Scholarship issued by Department of Science and Technology Government of India 2022–Current
- Batch-22 Topper for first semester, NISER