

Rajarshi Dasgupta

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Research Interests

Physics Informed Neural Networks, Finite Element Methods, Graph Neural Networks, Complex Systems

Experience

December 2024 Organising Committee Member, CASML-2024, Indian Institute of Science (IISc), Bengaluru, India's first scientific machine learning conference, hosting up to 300 participants

October 2024 Presented a poster on 'Challenges with hp-VPINNs' at the Indo-German Workshop on Hardware-aware Scientific Computing (IGHASC)

May 2021 - May 2022 Research on a dynamical system exhibiting self organised criticality in the presence of random links under the guidance of Prof. Sudeshna Sinha at Indian Institute of Science Education and Research (IISER) Mohali

May-July 2018 Computational work on one dimensional maps, understanding dimensionality of fractals, learnt and implemented the 'small-world' network, studied spatio-temporal characteristics of coupled lattice maps under the guidance of Prof. Sudeshna Sinha

Education

Ongoing M.Tech. (Research) Pursuing my M.Tech.(Research) degree at the department of Computational and Data Sciences, IISc under the supervision of Prof. Sashi Kumar Ganesan with a CPI of 8.1.

BS-MS Physics Major and Data Science Minor at IISER Mohali with a CPI of 8.9 out of 10.

Class 12 Completed in Kendriya Vidyalaya, IIT Kanpur with an average of 93%.

Publications

- Dasgupta, R., Arun, A. & Sinha, S. Emergent activity networks in a model of punctuated equilibrium. Eur. Phys. J. Plus 137, 1366 (2022). <https://doi.org/10.1140/epjp/s13360-022-03581-y>

Skills

Programming Languages C, C++, Python, MATLAB

Software L^AT_EX, shell scripting with basic UNIX programs including AWK scripting

Personal Information

Languages I speak Hindi, English and have an understanding of Bengali.

Interests Theatre and literature