

KRISHNADAS MOHANDAS

Doctoral Researcher & Young Physicist

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✉ WUT, Faculty of Physics, Koszykowa 75

📍 Warsaw, Poland

📧 krishnadasm96

EXPERIENCE

Research Assistant

Warsaw University of Technology

📅 Aug 2022 – ongoing

📍 Warsaw, Poland

- ALPHORN Project: Signed relations and structural equilibrium in complex systems: from data to models.
- Research Field: "Agent based modeling of stochastic systems." Supervisor: Prof. Janusz Hołyst

Teaching Assistant

Warsaw University of Technology

📅 Jan 2023 – ongoing

📍 Warsaw, Poland

- Physics Lab, Foundation year physics.

Research Assistant

IISER

📅 Nov 2020 – April 2022

📍 Tirupathi, India

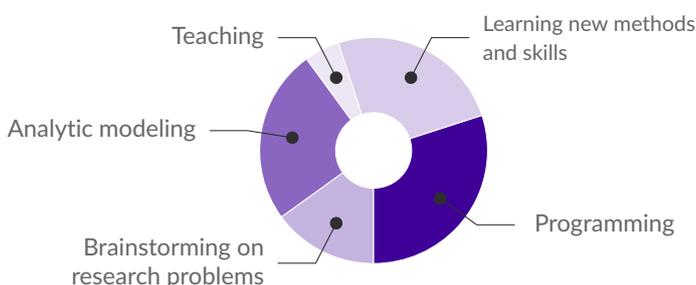
- Recurrence Networks and Measures of financial data.
- Research Field: "Nonlinear Dynamics and Nonlinear Time Series Analysis" Supervisor: Prof. G. Ambika

PUBLICATIONS

Journal Articles

- K. Mohandas, K. Suchecki, and J. A. Hołyst, "Critical properties of heider balance on multiplex networks," *Physical Review E*, vol. 109, no. 4, 2024. DOI: 10.1103/PhysRevE.109.044306.
- K. Mohandas, K. Harikrishnan, and G. Ambika, "Recurrence measures and transitions in stock market dynamics," *Physica A: Statistical Mechanics and its Applications*, vol. 608, 2022. DOI: 10.1016/j.physa.2022.128240.
- K. Mohandas, P. Saratchandran, and K. Harikrishnan, "Chaos in a cyclic three-species predator-prey system with a partial consumption of superpredator," *Pramana - Journal of Physics*, vol. 94, no. 1, 2020. DOI: 10.1007/s12043-020-1942-9.

A DAY OF MY LIFE



EDUCATION

Ph.D. in Physics

Warsaw University of Technology

📅 Aug 2022 – ongoing

M.Sc. in Physics

Mahatma Gandhi University

📅 Aug 2016 – Aug 2018

B.Sc. in Physics

Mahatma Gandhi University

📅 July 2013 – June 2016

RESEARCH INTERESTS

Complex networks

Time Series Analysis

Complexity

Social dynamics

STRENGTHS

Modeling

Statistical analysis

Data Science

Scientific Computing

Agent based modeling

PROGRAMMING SKILL

Python



Matlab



R



SQL



LANGUAGES

English



Malayalam



Polish



GRANTS & SCHOLARSHIPS

- Research grants for young research and doctoral students of the Warsaw University of Technology in the discipline of Physical Sciences: 2023-2024
- ALPHORN - Polish-Swiss research project scholarship: 2022-2024

REFEREES

Prof. Jnausz Hołyst

@ Warsaw University of Technology

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WUT, Faculty of Physics, Koszykowa 75, 00-662 Warszawa

Dr. Piotr Gorski

@ Warsaw University of Technology

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PRESENTATION

- DPG spring meeting, Dresden (SKM 2023) 26.03.2023-31.03.2023 Poster: Mean field approach for link coupling in Heider dynamics in bilayer network.
- Summer school: Lake Como School of Advanced Studies, Como, Italy – 22.05.2023 – 26.05.2023 Complex Networks: Theory, Methods, and Applications
- FENS 2023 & Max Born Symposium, Wrocław 14.09.2023 – 16.09.2023 Oral presentation: Mean field solution for Heider balance in multi-layer network.