



Krishna Kumar Godara
UGC JRF Research Fellow
Jan 2025-Present
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OBJECTIVE

My work focuses on using computational methods to explore complex physical systems, building on a foundation in Active Matter Physics and Nonlinear Dynamics.

CURRENT EDUCATION

PhD in Physics Indian Institute of Technology (IIT), Jodhpur Supervisor: Dr. Prabhat K. Jaiswal

ACADEMIC BACKGROUND

Degree/Certificate	Institute/Board	CGPA/Percentage	Period/Passing Year
Integrated MSc Physics	Central University of Rajasthan, Ajmer	7.26	July 2018 - Aug 2023
Senior Secondary	Vivekanand Vidya Ashram Sr. Sec. School. S.H. 20, Nokha-Sikar Road Vill-Katar Chhoti, Teh-Bidasar, Dist-Churu (Raj.) [RBSE]	76.00%	May 2016
Secondary	Bhaskar Sr. Sec. School, Jasrasar [RBSE]	79.67%	June 2014

MSC PROJECT

- Phase-slip in pentanol drops in parallel connected channels Dec 2022 - May 2023
Non-linear Dynamics of Active Matter Central University of Rajasthan, Ajmer
- Guided by Prof. Manish Dev Shrimali (Central University of Rajasthan) and Prof. Punit Parmananda (IIT Bombay)
- Investigation of Phase-slip in pentanol drops oscillation in parallelly connected channels.
 - Identified the emergence of phase shift behavior in controlled interactions, resulting in stable anti-phase oscillation.
 - Demonstrated that stable state duration is influenced by interaction width, leading to various synchronization behaviors, including frequency entrainment in non-phase-aligned drops.

ACHIEVEMENTS

- CSIR-UGC NET JRF, Rank-46 June 2024
- GATE 2024 Qualified, IISc Bengaluru March 2024
- IIT JAM 2021 Qualified, IISc Bengaluru March 2021

SKILLS

- Programming Languages: Python; MATLAB; LaTeX
- Office Tools: MS Word; MS Powerpoint; MS Excel; Apple Numbers; Keynote; Notion
- Tech Softwares: Physlet Tracker; ImageJ; Figma; Adobe Photoshop

CERTIFICATIONS

- BIOPHOTONICS, NPTEL May 2023
- Physics of Biological Systems, NPTEL May 2023
- AI for Everyone, DeepLearning.AI April 2023
 - Workflow of Machine Learning projects
 - AI terminology
 - AI strategy
 - Workflow of Data Science projects
- ATMB 2023 ('ALGORITHMS that transformed MOLECULAR BIOLOGY'), Indraprastha Institute of Information Technology, Delhi March 2023
- Adobe Photoshop, Udemy August 2021
- Python for Beginners, Udemy August 2021
- UX/UI Design by Selfstudy Space, Cursa March 2021

LANGUAGES

- Hindi, Fluent
- English, Intermediate
- Rajasthani, Fluent