



# Krishna Kumar Godara

UGC JRF Research Fellow

Jan 2025-Present

Department of Physics

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Webpage

## 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