

DEOVRAT PRASAD

POSTDOCTORAL RESEARCH ASSOCIATE

CONTACT

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EDUCATION

PHD • JUNE 2018
PHYSICS AND ASTRONOMY
CSIR Fellow
Indian Institute of Science
Bangalore, India
Advisor- Prateek Sharma

INTEGRATED M.SC., 2012
PHYSICS
INSPIRE Fellow
Center for Excellence in Basic Sciences,
University of Mumbai, India

KEY SKILLS

Physics and Maths
Programming (C, C++, Fortran,
Python, Matlab, MPI)
Handling and developing large
HD/MHD codes
Big Data Analysis
Teaching and mentoring
Excellent communication

INTERESTS

HD/MHD simulations
Galaxy evolution modelling
Numerical Methods

PROFILE

Astrophysicist with specialisation in numerical modelling of the evolution of galaxies, groups and clusters at low redshifts. Expert in handling large hydrodynamic/ magnetohydrodynamic (HD/MHD) numerical codes and analysis of large data sets. Very strong background in physics and mathematics. Strong ability to collaborate and work in a team environment, design new experiments, and learn and work in new areas.

EXPERIENCE

POSTDOCTORAL RESEARCH ASSOCIATE •
NOVEMBER 2022 - PRESENT

Physics and Astronomy | Cardiff University | United Kingdom
-leading multiple simulation projects studying the evolution of galaxies, groups and clusters at low redshift
-publications in leading peer reviewed journals
-co-lecturer of PX1228 course for 2022-23 and 2023-24
-guest lecturer for PX4231 course for 2023-24 and 2024-25
-co-mentoring a post-graduate student for semester projects

POSTDOCTORAL FELLOW • JULY 2018 - JUNE 2022
Physics and Astronomy | Michigan State University | United States

-lead multiple simulation projects studying the evolution of galaxies, groups and clusters projects
-multiple publications in leading peer reviewed journals
-mentored undergraduate and graduate students through summer, and semester projects.

ACTIVITIES

- 12 peer reviewed publications in international journals (7 lead author, 5 collaborative)
-presentation at international conferences, seminars and colloquiums including talks, posters and short videos
-teaching multiple undergraduate and graduate courses
-departmental activities like organising focused research group meetings and mentoring students.