

# Curriculum Vitae of Rohit Kumar

Ariel University  
NIT Hamirpur

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## Professional Summary

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Passionate physics student specializing in Astronomy and Astrophysics with experience in research and teaching. Skilled in data analysis and theoretical modeling. Research interests include galaxy and star formation, Active Galactic Nuclei (AGN) feedback, and black hole physics.

## Education

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- **M.Sc. Physics**, Ariel University, Ariel, Israel  
Oct 2025 – Present
- **M.Sc. Physics**, National Institute of Technology Hamirpur, India  
2021 – 2023  
CGPA: 7.52 / 10
- **B.Sc. Physics**, Indira Gandhi National Open University (IGNOU), Delhi  
2016 – 2020  
Percentage: 62%
- **Diploma in Elementary Education (D.El.Ed.)**  
G.J.P.H.S., Siwan, Bihar  
2017 – 2019
- **Intermediate (Class XII)**  
S.B.S. Inter College, Siwan, Bihar  
2016  
Percentage: 68.4%
- **Matriculation (Class X)**  
G.J.P. High School, Siwan, Bihar  
2013  
Percentage: 74.4%

## Certifications and Training

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- Exploding Stars Investigation with Rubin Observatory – Vera C. Rubin Observatory and AAS (27 July 2024)
- Summer School in Theoretical (Astro) Physics – St. Xavier's College Ahmedabad and IUCAA (June 2024)
- Workshop: Beginning Astronomy v2 – Central University of Himachal Pradesh and IUCAA

- Summer School Internship – Indian Institute of Astrophysics (IIA)
- Student Internship – Indian Centre for Space Physics, Kolkata (Nov 2022)
- Workshop on Recent Progress in Astrophysics – Amity University Greater Noida (Nov 2022)
- Summer Internship – IIIT Kota (July 2021)
- Workshop: Theoretical and Data Analysis Techniques in Cosmology – GHRCE Nagpur (IU-CAA funded)
- Data Analysis in Cosmology using Python – Sardar Patel University Gujarat (Oct 2024)
- English Course – Oxford School of English, Delhi
- Webinar: Color the Universe with Rubin Observatory – AAS (Feb 2025)

## **Research and Projects**

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- Part-time Independent Researcher – Zooniverse
- Study of Active Galactic Nuclei (AGN) and Blazars using hard X-ray data from NASA telescopes including Swift BAT, XRT, UVOT, Fermi-LAT and NuSTAR
- Construction of a 150 mm Newtonian Reflecting Telescope – NIT Hamirpur
- Demonstration and construction of a working Earth-Sun system model – NIT Hamirpur

## **Key Skills**

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### **Technical Skills**

Python, MATLAB, Origin, MS Office, Linux OS, Zooniverse

### **Research Skills**

Data Analysis, Scientific Writing, Statistical Techniques, Numerical Analysis

### **Soft Skills**

Teaching, Mentoring, Effective Communication, Problem Solving

## **Teaching Experience**

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- Teacher – Adarsh Gyan Kendra, Barari, Siwan (April 2015 – March 2019)
- Teacher – S.S.C. Coaching Centre, Sani Basantpur, Siwan (April 2015 – March 2019)
- Tutor – Coaching and Home Tuition, Delhi (2019)

## **Languages**

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- Hindi – Native Proficiency
- Bhojpuri – Native Proficiency
- English – Fluent