## Nitesh Kumar

□ niteshchandra039@gmail.com

**y** @astro\_nitesh

+918742930496

in astro\_nitesh

http://niteshchandra039.github.io/



## **Education**

- Delhi, Delhi. Secured 80.02%. 

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  Deshbandhu College, University of Delhi, Delhi. Secured 80.02%.
- > Intermediate (12<sup>th</sup>, Science), Bharat Ji Saraswati Inter College, Aonla, Bareilly, Uttar Pradesh, 243301. Secured 81.6%.

## **Research Publications**

#### **Journal Articles**

- Nitesh Kumar, A. Bhardwaj, H. P. Singh, M. Rejkuba, M. Marconi, and P. Prugniel, "Multiwavelength photometric study of RR lyrae variables in the globular cluster NGC 5272 (Messier 3)," *Monthly Notices of the Royal Astronomical Society*, vol. 531, no. 3, pp. 2976–2997, May 2024, ISSN: 0035-8711. ODI: 10.1093/mnras/stae1334.
- Nitesh Kumar, A. Bhardwaj, H. P. Singh, et al., "Predicting light curves of RR Lyrae variables using artificial neural network based interpolation of a grid of pulsation models," Monthly Notices of the Royal Astronomical Society, vol. 522, no. 1, pp. 1504–1520, Mar. 2023, ISSN: 0035-8711. ODOI: 10.1093/mnras/stad937.

### Skills

Languages • Proficient in reading, writing, and speaking **English** and **Hindi**.

Web Development Skilled in HTML, CSS, and JAVASCRIPT.

Miscellaneous • Proficient in academic research, teaching, training, consultation, and Lagrange typesetting and publishing.

# **National Level Exams**

- - ♦ **CSIR JRF/NET**, Cleared CSIR JRF(NET) Physical Sciences of JUNE 2018.
  - ♦ **GATE PHYSICS**, Cleared GATE PHYSICS 2018.

# **Workshop and Conferences**

- organised by St. Stephen's College College, University of Delhi, Delhi from 6 to 10 November 2023.
  - ♦ **Workshop on Stellar and Dynamical Evolution**, organised by Miranda House College, University of Delhi, Delhi from 3 to 5 October 2023.
- ViFAS 7, Participated in the Indo-French Astronomy School (IFAS) on Spectroscopy and Spectrographs, hosted at The Inter-University Center for Astronomy and Astrophysics, Pune, from November 21 to 27, 2022.
  - YAM 2022, Gave a presentation titled "Application of Artificial Neural Networks in Generating RR Lyrae Light Curves" at the Young Astronomers' Meet, held at Aryabhatta Research Institute of Observational Sciences (ARIES), Nainital, from November 9 to 13, 2022.
  - International Staff Week 2022, Attended the International Staff Week with the theme "Internationalization in the New Era" organized by WSB University, Dąbrowa Górnicza, Poland, from May 16 to 20, 2022.
  - ♦ EAS 2022, Participated in the European Astronomical Society Annual Meeting from June 27 to July 1, 2022.
  - ♦ FDP WORKSHOP, Engaged in the One-week Faculty Development Program "Recent Trends and Challenges in Intelligent Systems and Machines (RTCISM)" organized by Amity School of Engineering & Technology (ASET), Amity University Patna, from July 25 to 29, 2022.
- - ♦ ASI 2021, Participated and presented a poster titled "Spectral Interpolation using Artificial Neural Networks (ANN)" at the 39th Annual Meeting of the Astronomical Society of India (ASI), a virtual meeting hosted jointly by ICTS TIFR Bengaluru, IISER Mohali, IIT Indore, and IUCAA Pune from February 18 to 23, 2021 (https://astron-soc.in/asi2021/abstract\_details/ASI2021\_66).
- o **IFAS 6**, Participated in the *6th Indo-French Astronomy School Treasures in the Voxels*, held online by the Centre de Recherche Astrophysique de Lyon from July 9 to 17, 2020.

# **Invited Talks**

Delivered an introductory lecture on Astronomy at Government Degree College, Budaun, Uttar Pradesh, India.

# **Miscellaneous**

- Served as a subject matter expert in the assessment of the translation of first-year engineering SWAYAM courses (Quantum Mechanics I) into regional languages (Hindi).

Project  $\diamond$  Developed the website https://ann-interpolator.web.app/ for a specific project.

### References

## Prof. Harinder P. Singh

Senior Professor Department of Physics and Astrophysics, University of Delhi, India.

hpsingh@physics.du.ac.in

### **Prof. Philippe Prugniel**

Professor Université de Lyon, CNRS, Lyon, France. philippe.prugniel@univ-lyon1.fr

### Dr. Anupam Bhardwaj

Assistant Professor Inter University Center for Astronomy and Astrophysics (IUCAA), Pune, India.

anupam.bhardwaj@iucaa.in