

# Nitesh Kumar

✉ niteshchandra039@gmail.com    🐦 @astro\_nitesh  
📞 +918742930496  
🌐 astro\_nitesh  
🌐 <http://niteshchandra039.github.io/>



## Education

- 2018 – **Ph.D., University of Delhi, Delhi** in Astronomy and Astrophysics (ongoing\*).  
Thesis title: *Automated Analysis of Photometric and Spectroscopic Astronomical Data*
- 2018 **M.Sc. Physics, Hansraj College, University of Delhi, Delhi.**  
Secured 64.2%.
- 2015 **B.Sc.(H) Physics, Deshbandhu College, University of Delhi, Delhi.**  
Secured 80.02%.
- 2012 **Intermediate (12<sup>th</sup>, Science), Bharat Ji Saraswati Inter College, Aonla, Bareilly, Uttar Pradesh, 243301 .**  
Secured 81.6%.
- 2010 **High School (10<sup>th</sup>, Science), Bharat Ji Saraswati Inter College, Aonla, Bareilly, Uttar Pradesh, 243301 .**  
Secured 81%.

## Research Publications

### Journal Articles

- 1 N. 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. DOI: 10.1093/mnras/stad937.

## Skills

- Languages **Strong reading, writing and speaking competencies for English, Hindi.**
- Coding **Python, Java, R, IDL, HTML, SQL,  $\LaTeX$ , MS Office, etc**
- Web Dev **HTML, CSS, JavaScript.**
- Misc. **Academic research, teaching, training, consultation,  $\LaTeX$  typesetting and publishing.**

## National Level Exams

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

## Workshop and Conferences

- 2022
- **IFAS 7**, *Indo-French Astronomy School (IFAS) on Spectroscopy and Spectrographs*, held at The Inter-University Center for Astronomy and Astrophysics, Pune, during November 21-27, 2022.
  - **YAM 2022**, Presented a talk titled "Generation of RR Lyrae light curves within parameter space of a grid of theoretical models using Artificial Neural Networks" at the *Young Astronomers' Meet* held at Aryabhata Research Institute of Observational-ScienceS (ARIES), Nainital, during November 9-13, 2022.
  - **International Staff Week 2022**, Attended *International Staff Week* on the topic "*Internationalization is back on the new track*" organized by WSB University, Dąbrowa Górnicza, Poland, during May 16-20, 2022.
  - **EAS 2022**, Attended the EUROPEAN ASTRONOMICAL SOCIETY ANNUAL MEETING ONLINE (PLENARIES & EPOSTERS) from June 27 to July 1st, 2022.
  - **FDP WORKSHOP**, Participated in *One-week Faculty Development Program - "Recent Trends and Challenges in Intelligent Systems and Machines (RTCISM)"* organised by Amity School of Engineering & Technology (ASET), Amity University Patna, during July 25-29, 2022.
- 2021
- **Code/Astro**, Code/Astro is a 40-hour course in Python-based software development for astronomers, covering software development paradigms and environments, version tracking, testing, documentation, packaging, and profiling.
  - **ASI 2021**, Participated and presented a poster titled *Spectral interpolation using Artificial Neural Network (ANN)* in 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 during 18-23 February 2021, [https://astron-soc.in/asi2021/abstract\\_details/ASI2021\\_66](https://astron-soc.in/asi2021/abstract_details/ASI2021_66).
- 2020
- **IFAS 6**, Participated in *6th Indo-French Astronomy school Treasures in the Voxels* held online from the Centre de Recherche Astrophysique de Lyon July 9th – 17th, 2020.

## Invited Talks

- 2023
- Introduction to Astronomy, Budaun, Uttar Pradesh

## Miscellaneous

- 2022
- Participated as a subject expert in the evaluation work for the translation of first-year engineering SWAYAM courses (Quantum Mechanics - I) in regional languages (Hindi).

## References

Available on Request