

Curriculum Vitae

NAME – SHRADDHA BISWAS

**Junior Research Fellow
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Date of Birth – 25/07/1997

Field of Interest:-

Exploring Close-in Extra-solar Planetary Systems; Unveiling Exoplanet Candidates around Stars in Open Cluster Environments; Searching for Variable Stars in Open Cluster Fields through Transit Observations.

Supervisor:- Dr. Devendra Bisht

Educational Background:-

1. M.Sc. in Physics from Guru Ghasidas Vishwavidyalaya (a central university) with 84.58% marks, **University Second Rank.**
2. B.Sc. In Physics with 55.13% marks from University of Calcutta, West Bengal.

3. Higher Secondary (Class 12th) Examination with 75.40% marks from WBCHSE board.
4. Secondary (Class 10th) Examination with 87% marks from WBBSE board.

Honours/Awards:-

- 1) ***Best poster presentation award*** for poster entitled “**Probing the Transit Timing Variations in the TrES-2 system with TESS data**” during **Meghnad Saha Memorial International Conference on Frontiers of Physics (MSMICFP-2023)** held from **November 22-24, 2023** organized by **the Department of Physics, University of Allahabad, India.**
- 2) Qualified **Telangana state eligibility test (TS-SET)** for the lectureship in university or colleges in **2022.**
- 3) Participated in the **1st e-Quiz of the series** on “**Quantum Mechanics & Laser Physics**” organized by **Mahatma Gandhi Central University, Motihari, Bihar, India** held on **28th October 2021** and secured more than **60% marks.**

Language Proficiency:-

1. Bengali
2. English
3. Hindi

Skills:-

Operating system:- Linux operating system (Fedora) and Windows operating system.

Software: Xmgrace, Gnuplot, Matplotlib, LaTeX, Libreoffice. Juliet, celerite, Multinest, PyMultinest, Transit Analysis Package (TAP), JKTLD, JKTEBOP, emcee, Radvel, corner, astroML, NumPy, Scipy, PyAstronomy, Generalized Lomb Scargle Periodogram (GLS), Astropy, EXOFAST, JKTEBOP, Astroquery, IRAF.

Programming languages:- Python, Fortran and C++.

Talks Delivered in Conferences:-

I delivered a talk on “**Probing the possible causes for the changing orbital period for WASP-4 system**” in the NSSEMA-2023 held at **Pt. Ravisankar Shukla University, Raipur** from **16-18th March, 2023**.

Posters Presented:-

- 1) Poster presentation on “**Exploring the Existence of an Additional Planet in the hot-Jupiter Extra-solar Planetary System TrES-2 with TESS data**” in the **2023 Sagan Exoplanet Summer Hybrid Workshop** hosted by **The NASA Exoplanet Science Institute, California Institute of Technology, Pasadena, CA** during **July 24-28, 2023**.
- 2) Poster presentation on “**Probing the Transit Timing Variations in the TrES-2 system with TESS data**” during **Meghnad Saha Memorial International Conference on Frontiers of Physics (MSMICFP-2023)** held from **November 22-24, 2023** organized by the **Department of Physics, University of Allahabad, India**.
- 3) Poster presentation on “**Further probing of the plausible causes of TTV in the TrES-2 system with TESS data**” in the **International Conference on Planets, Exoplanets and Habitability (ICPEH)** hosted by **Physical Research Laboratory, Ahmedabad, India** during **5-9th February, 2024**.
- 4) Poster presentation on “**Searching for short term transit timing variation in WASP-19 system**” in the **First Biennial Conference on Astronomy, Astrophysics and Space Science** hosted by **Indian Centre for Space Physics (ICSP), Kolkata, India** during **16-21th February, 2024**.

Workshops/Conferences attended:-

- 1) Participated in **“EXOPLANETS:A Short on Planets Orbiting Stars Other Than the Sun”** from **1st February to 28th February 2023**, organized by **Pune Knowledge Cluster (PKC)**.
- 2) Participated in the workshop on **“AI with space applications”** conducted as a part of **Astrax’22** by the **Space Technology and Astronomy Cell of Indian Institute of Technology, Mandi** during **April 22-24th, 2022**.
- 3) Attended a **Online Short course on “Planetary Science”** conducted by **Physical Research Laboratory, Department of Space, Ahmedabad, India** during **May 15-19, 2023**.
- 4) Participated in the **Online Short course on “Solar Physics”** conducted by **Physical Research Laboratory, Department of Space, Ahmedabad, India** during **May 22-26, 2023**.
- 5) Participated in the **Summer School 2023** programme held online from **1-4 June, 2023** conducted by **INDIAN INSTITUTE OF ASTROPHYSICS (IIA), Bengaluru, India**.
- 6) Participated in the **“TESS/Kepler Asteroseismic Science Consortium Workshop” (TASC7/KASC14)** organized by **University of Hawai’i** during **17-21 July, 2023**.
- 7) Participated in the **International Conference “Strange New Worlds: The Exploration of Exoplanets”** hosted by **IISER, Pune, India**, during **17th-19th August, 2023**.
- 8) Attended workshop on **“Computer Programming using Python”** conducted by **Computer Science and Engineering Department** from **16.01.2023 to 20.01.2023**.

- 9) Participated in the **Vigyan Arohan (A Series of Scientific Talks): Talk-04 on “Indian space programme : A triumph from serving the nation to reaching the moon”** and the **Live telecast program of “Soft landing of Chandrayan-3”** organized by Department of Physics, Saurashtra University, Rajkot (Gujarat) India on August 23, 2023.

- 10) **Attended workshop on “MATLAB – Artificial Intelligence and Optimisation Techniques”** conducted by Electrical Engineering Department, Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G. from **21.11.2022 to 25.11.2022.**

- 11) Attended the Workshop on **“Python Programming in Astronomy, Astrophysics and Cosmology” (PPAAC)** organized by **GLA University, Mathura** during the period **July 20-22, 2023.**

- 12) Attended the workshop on **“Astronomy Data Analysis with Python” (ADAP-23)** organized by **MANUU, Hyderabad** from **5-8th September, 2023.**