

Vishal Rao

Education

- 2021- present **PhD student.**
Indian Institute of science, Bangalore, India
- 2011–2012 **Higher Secondary School Certificate Examination, under CBSE**, (Central Board of Secondary Education), Birla School, Pilani, India.
Percentage- 92.0 with subjects Physics, Chemistry, Mathematics

Training and Research Work

- 16th –31st **Summer School Programme**, IIA (INDIAN INSTITUTE OF ASTROPHYSICS) , *India*, Bangalore.
May 2018 At Kodaikanal Solar Observatory *kodaikanal*, Introductory lecture series was conducted by IIA faculty members which consist of different areas of Astronomy and Astrophysics with tutorials and hands on use of astronomical data.
- 1st January–
30th April **Masters Thesis Project**, IIA (INDIAN INSTITUTE OF ASTROPHYSICS) , *India*, Bangalore.
2019 The project entitled **Mid - infrared spectroscopic studies of planetary nebulae** was aimed to decompose the Mid IR Spitzer spectra into it's constituent sources using the *PAHFIT* package of *IDL* for 52 planetary nebulae. The objective of research work was to provide clues on dust destruction, and the evolution of ionization fraction of dust with nebular age.

Computational skills

- Basic level **Quantum Computing**
- Proficient **AT_EX**, **Python**, **C**, **Fortran90**, **C++**, **CUDA**, **VIM**, **awk**, **sed**, **git**, **typing**
- OS **Linux**, **Mac OS**

Participation

- > Participated in college event named *Researchathon*, which was aimed to provide continuous 10hr long investigating experience on selected topic *cosmic microwave background radiation*.
- > One year course on **Introduction to Quantum Computing** by IBM at qubitbyqubit.org from Oct 2020 to April 2021.
- > Convener of IISc Gymkhana Cricket Club (Jan 2023 - Jan 2025); Participated in KSCA 4th Division 20,50 Overs matches.
- > Won Bronze Medal in cricket at Inter IISER Sports Meet 2022.
- > Got Silver Medal in cricket at Inter IISER Sports Meet 2024.
- > Captain of winning team of Challenger series (Intra college white Leather ball T20 Tournament) 2025.
- > Captain of Volleyball and one of the cricket team of department in Spectrum 2022.
- > Cheif Organiser for two Intra-college (Independence cricket tournament 2023) cricket tournaments for students and employees at IISc.

Other Interests

- > Science Communication
- > Cricket, Volleyball, Sprint events(100m, 200m) and natural Bodybuilding

Languages

> Hindi and English