

# Vishal Rao

## Education

- 2021- present **PhD student.**  
Indian Institute of science, Bangalore, India
- 2014–2019 **Five year Integrated Master of Science in Physics.**  
Sardar Vallabhbhai National Institute of Technology, Surat, India  
CGPA -8.88/10
- 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

- 16<sup>th</sup> –31<sup>st</sup> **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.
- 1<sup>st</sup> January–  
30<sup>th</sup> 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 **L<sup>A</sup>T<sub>E</sub>X, 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](http://qubitbyqubit.org) from Oct 2020 to April 2021.
- > Convener of IISc Gymkhana Cricket Club (since Jan 2023); Participated in KSCA 4<sup>th</sup> Division 20,50 Overs matches.
- > Won Bronze Medal in cricket at Inter IISER Sports Meet 2022.
- > Captain of Volleyball and one of the cricket team of department in Spectrum 2022.
- > Chief Organiser for two Intra-college (Independence cricket tournament 2023) cricket tournaments for students and employees at IISc.

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## Other Interests

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

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## Languages

- > Hindi and English