

Rama Subramanian V

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INTEREST

My primary research interest is in understanding the planetary surface processes. I am always eager to implement new scientific ideas in numerical modelling of planetary surface and leveraging my technical skills to solve the associated challenges. I aim to make the most of the opportunity to contribute to groundbreaking research and further develop my expertise in Planetary Science.

RESEARCH EXPERIENCE

- **Physical Research Laboratory** [i] June 2024 - Present
Ahmedabad, India
Research Intern
 - [Prof. S Vijayan](#)
 - Evidence for ice transport and loss in Moon Permanently shadowed region by impacts
- **Physical Research Laboratory** [i] March 2024 - Present
Ahmedabad, India
Research Intern
 - [Prof. S Vijayan](#)
 - Chandrayaan-3 landing site evolution by South Pole-Aitken basin and other impact craters
- **Indian Institute of Astrophysics** [i] Jan 2023 - June 2023
Bangalore, India
Master Thesis
 - [Prof. G. C. Anupama](#) and [Prof. D. K. Sahu](#)
 - Probing The Optical Nature of Type Iax Supernovae
- **Amrita Vishwa Vidyapeetham** [i] Jan 2022 - May 2022
Coimbatore, India
Mini - Project
 - [Dr. M. Dharani](#)
 - Astrometric Analysis of M67 & M4 Clusters using GAIA EDR3

EDUCATION

- **PG Diploma Course in Space and Atmospheric Science** Sep 2023 - May 2024
Ahmedabad, India
Physical Research Laboratory
 - Affiliated to the United Nations: [Center for Space Science and Technology Education in Asia and the Pacific](#)
 - CGPA: 8.775 / 10
- **M.Sc Physics** Aug 2021 - Aug 2023
Coimbatore, India
Amrita Vishwa Vidyapeetham
 - CGPA: 7.25 / 10
- **B.Sc Physics** July 2018 - Apr 2021
Chennai, India
Guru Nanak College
 - CGPA: 8.87 / 10
- **Higher Secondary School** June 2016 - Apr 2018
Chennai, India
Modern Senior Secondary School
 - CGPA: 8.74 / 10

PUBLICATIONS

P=PUBLICATION, A=ACCEPTED, U=UNDER-REVISION

- [P] S. Vijayan, K.B. Kimi, Anil Chavan, R. Aditi, U. Thahira, **V. Rama Subramanian**, Rishitosh K. Sinha, Amitabh, Santosh Vadawale, M. Shanmugam, N.P.S. Mithun, Arpit R. Patel, S. Amit Basu, K.V. Iyer, K. Suresh, Ajay Prashar, G. Rima, Anil Bhardwaj. **Chandrayaan-3 landing site evolution by South Pole-Aitken basin and other impact craters**, *Icarus*, 425 (Sep. 2024), p.116329. doi: [10.1016/j.icarus.2024.116329](https://doi.org/10.1016/j.icarus.2024.116329).
- [P] A. Joshi, M. Catelan, S. Scaringi, A. Schwoppe, G.C. Anupama, N. Rawat, D.K. Sahu, M. Singh, R. Dastidar, **R. Venkata Subramanian**, S.M. Rao. **Unveiling the nature of two dwarf novae: CRTS J080846.2+313106 and V416 Dra**, *Astronomy and Astrophysics*, 689 A158 (Sep. 2024), p 12. doi: [10.1051/0004-6361/202348307](https://doi.org/10.1051/0004-6361/202348307).
- [P] Mridweeka Singh; Devendra K. Sahu; Barnabas Barna; Anjasha Gangopadhyay; Raya Dastidar; Rishabh Singh Teja; Kuntal Misra; D. Andrew Howell; Xiaofeng Wang; Jun Mo; Shengyu Yan; Daichi Hiramatsu; Craig Pellegrino; G. C. Anupama; Arti Joshi; K. Azalee Bostroem; Jamison Burke; Curtis McCully; **Rama Subramanian V**; Gaici Li; Gaobo Xi; Xin Li; Zhitong Li; Shubham Srivastav; Hyobin Im; Anirban Dutta. **SN 2020udy: A New Piece of the Homogeneous Bright Group in the Diverse Iax Subclass**, *The Astrophysical Journal*, 965.1 (Apr. 2024), p. 73. doi: [10.3847/1538-4357/ad2618](https://doi.org/10.3847/1538-4357/ad2618).

UNDER PREPARATION

- [1] Vijayan S., Rama Subramanian V, Harish., Nehavarthini M, Kimi K.B., Thahira U, Aditi R, Rishav Sahoo, et al. Evidence for ice transport and loss in Moon Permanently shadowed region by impacts.

SKILLS

- **Programming:** Python (NumPy, SciPy, Astropy, GeoPandas, GDAL, Matplotlib)
- **Operating Systems:** Windows, Linux
- **Numerical Simulation Tools:** [iSALE-2D](#), TOPCAT
- **Miscellaneous:** GitHub, \LaTeX , Blogging

MEDIA/ PRESS RELEASE

- **Chandrayaan-3: Pragyan rover discovers ancient 160-km-wide crater on the Moon Surface** [[i](#)] 22nd September 2024
Media Channel
 - [The Hindu](#) , [India Today](#) , [Times Now](#) , [Hindustan Times](#) , [REPUBLIC](#)

HONORS AND AWARDS

- **International Astronomical Search Collaboration** 2021
Participation in the analysis of near-Earth objects from Pan-STARRS
- **Observational Astronomy and Equipment** 2021
SPACE India
- **MATLAB Onramp** 2021
MathWorks - Training services
- **PCAP: Programming Essentials in Python** 2021
Cisco Networking Academy : self-paced course
- **International Astronomy Astrophysics Competition** 2020
Silver Honour Award

SEMINARS

- **ISRO-Structured Training Program on "Sun-Planet Interactions: A Space Weather Perspective"** 25th - 29th Sep 2023
Physical Research Laboratory Ahmedabad, India
 - **Topics on:** solar variability, space weather, planetary atmospheres, ionospheres, and magnetosphere and introduces important aspects of instrumentation and modelling techniques to investigate Sun-Planet interactions.

EXTRACURRICULAR ACTIVITY

- **Stargazing Perseid Meteor Shower** Aug 2021
SPACE Chennai Yelagiri, India
 - Astrophotography, Mapping Constellation.
- **Astronomy Computational Workshop** Jan 2020
SHAASTRA, Indian Institute of Technology Madras Chennai, India
 - Introduction to FITS images and SAOImage DS9, celestial coordinate system, Luminosity and HR Diagram.

LANGUAGES

English (Professional proficiency), **Tamil** (Native proficiency), **Hindi** (Limited Working Proficiency), **Malayalam** (Limited Working Proficiency)