

Rama Subramanian V

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INTEREST

My primary research interest is in numerical modelling of planetary formation and surface processes. I am always eager to implement new scientific ideas and leveraging my technical skills to solve the associated challenges. I aim to make the most of this 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](#)
 - Numerical Modelling of Impact craters at the PSRs of the lunar south pole using iSALE-2D
- **Physical Research Laboratory** [i] March 2024 - May 2024
Ahmedabad, India
Research Intern
 - [Prof. S Vijayan](#)
 - Estimation of Impact Crater Ejecta Thickness at Chandrayaan-3 Landing Site (*Accepted for Publication*)
- **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

- [A] 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 (2024), 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 American Astronomical Society, 965.1 (Apr. 2024), p. 73. doi: [10.3847/1538-4357/ad2618](https://doi.org/10.3847/1538-4357/ad2618).

SKILLS

- **Programming:** Python (NumPy, SciPy, Astropy, GeoPandas, GDAL, Matplotlib)
- **Operating Systems:** Windows, Linux
- **Numerical Simulation Tools:** iSALE-2D, TOPCAT
- **Miscellaneous:** GitHub, L^AT_EX, Blogging

MEDIA/ PRESS RELEASE

- **Chandrayaan-3: Pragyan rover discovers ancient 160-km-wide crater on the Moon Surface** [i] 22nd September 2024
Media Channel
 - [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)