

Keshav Aggarwal

PERSONAL DETAILS

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EDUCATION

JUL 2023 - PRESENT	Ph.D. in Astronomy (Prime Minister's Research Fellowship) Supervisor: Prof. Abhirup Datta , DAASE, Indian Institute of Technology (IIT) Indore <i>Exploring space weather and its effect on planetary atmospheres using radio occultation</i>
AUG 2021 - APR 2023	M.Sc. Astronomy Supervisor: Prof. Abhirup Datta , DAASE, Indian Institute of Technology (IIT) Indore <i>Study of the Solar Corona using Indian Mars Orbiter Mission</i>
JULY 2018 - JUNE 2021	Bachelor of Science, J.V. Jain College, Choudhury Charan Singh University, UP, India

PUBLICATIONS

Refereed Journals	Keshav Aggarwal , R. K. Choudhary, Abhirup Datta, Takeshi Imamura; <i>On the estimation of Solar wind velocity under varying Solar activity conditions using Akatsuki measurements</i> (Submitted to MNRAS) Keshav Aggarwal , R. K. Choudhary, Abhirup Datta, Roopa M. V, Bijoy K. Dai.; <i>Insights into Solar Wind Flow Speeds from the Coronal Radio occultation Experiment: Findings from the Indian Mars Orbiter Mission</i> 10.3847/1538-4357/adb627
Conference proceedings	Keshav Aggarwal , R. K. Choudhary, Abhirup Datta; <i>On the estimation of solar wind velocity using spectral characteristics of the probing radio signals: Results from solar occultation measurements using Indian Mars Orbiter Mission</i> at 6th Indian Planetary Science Conference, IIT Roorkee (Submitted to Springer Nature as conference proceedings)

For other publications, please refer to my [personal webpage](#).

WORKSHOPS, SCHOOLS, AND PRESENTATIONS

Mar 2025	"Results from Radio Occultation studies using Indian Mars Orbiter Mission" at 6th Indian Planetary Science Conference, IIT Roorkee
Oct 2024	"Results from Radio Occultation studies using Indian Mars Orbiter Mission" at 6th URSI Regional Conference on Radio Science (URSI RCRS), GEHU Bhimtal India
Oct 2024	"Results from Radio Occultation studies using Indian Mars Orbiter Mission" at 3rd Indian Space Weather Conference, IIT Roorkee
Oct 2023	"Unveiling Space Weather and Planetary Atmosphere Dynamics through Aditya-L1 and DISHA Data Integration" at 2nd Indian Space Weather Conference, PRL Ahmedabad
Sep 2023	"Retrieving sulphuric acid profiles of Venus Atmosphere from Radio Occultation data from Akatsuki spacecraft" at Venus Science Conference, PRL Ahmedabad
Aug 2023	"Venus PT profiles in 3D using RO" at Exoplanet conference: "Strange new worlds", IISER pune
Feb 2023	ISRO-ARIES Aditya-L1 Support Cell Workshop by IIT-BHU, Varanasi
Mar 2022	Spring 2022: ERS Post-Launch Data Challenge for JWST , organized at Baltimore, MD, USA, and Heidelberg, Germany

ACHIEVEMENTS

Mar 2025	Early Career Researcher award for Best poster at the 6th Indian Planetary Science Conference, IIT Roorkee
Feb 2024	Contributed to Venus Mission White Paper titled ' <i>Venus: The perfect laboratory for understanding interactions between space weather and planetary atmospheres</i> ', submitted to ISRO

INTERNSHIPS

AUG 2022 - SEP 2023	Researcher in AI and Orbital Mechanics HR Coordinator at ERETS Space London, London (Remote) Developing algorithms for the AI/ML and orbital mechanics for the satellites. Responsible for fulfilling the hiring requirements for the team as per need.
FEB 2022 - AUG 2022	Data Analyst Project Coordinator at Armstrong Space Australia, Melbourne (Remote) Building pipelines for data acquisition and processing space debris data. Working towards solving the problem of space debris using laser ablation method. Developing catalogues for space debris between 1 and 10cm.