

# ARYA V.B.

Email: aryavb1990@gmail.com  
Mobile: +91-9731951558

---

**Research Area** Atmospheric aerosols, Indian summer monsoon, Air pollution, Aerosol-cloud interactions, Regional climate modelling.

**Education** **Ph.D.** in Physical Science, 2022  
Thesis Title: **The impact of regional aerosols on Indian summer monsoon rainfall and variability**  
Academy of Scientific Innovative Research (AcSIR), Ghaziabad, India.

**Master of Science** in Meteorology, 2014  
Cochin University of Science and Technology (CUSAT), Kochi, India.

**Bachelor of Science** in Physics, 2012  
Mahatma Gandhi University, Kottayam, India

**Awards/Honours** **University Second Rank in M.Sc. Meteorology**  
Cochin University of Science and Technology, Kerala, India, 2014.

**Qualified UGC-JRF Fellowship and Lectureship (NET)**  
Research fellowship in Earth, Atmosphere, Ocean and Planetary Sciences, 2013.

**Summer Research Fellowship**  
Jointly sponsored by IASc (Bangalore), INSA (New Delhi) and NASI (Allahabad), 2013

**First Prize in Quiz Competition**  
Bharat Petroleum Corporation Limited Kochi Refinery, 2012

**Awardee of Center Sector Scholarship**  
Ministry of Human Resource Development, Govt.of India, 2009-2014.

**Rastrapati Guide award from the President of India, 2007.**

**Professional Experience** **Research Associate** October 2022 - Present  
Space Physics Laboratory, VSSC, ISRO, India

**Senior Research Fellow** August 2016 - August 2019  
CSIR Fourth Paradigm Institute (CSIR-4PI), Bangalore, India

**Junior Research Fellow** August 2014 - August 2016  
CSIR Fourth Paradigm Institute (CSIR-4PI), Bangalore, India

**Technical Skills** Expert in handling and analyzing huge volume of climate datasets (e.g. NetCDF, GRIB, Binary, HDF) including satellite data from MODIS, MISR, OMI, CALIPSO, POLDER, SeWIFS and PDRMIP model data.

Expert in Fortran, NCL, GrADS, and SHELL scripting.

Experience in Python, CDO, MATLAB, Octave and LATEX.

**Journal  
Publications**

**Arya, V.B.**, Surendran, S. Rajendran, K. On the build-up of dust aerosols and possible indirect effect during Indian summer monsoon break spells using recent satellite observations of aerosols and cloud properties. *J Earth Syst Sci* 130, 42 (2021). <https://doi.org/10.1007/s12040-020-01526-6>.

Sajani S, Rajendran K and **Arya V B** 2016 Precipitation-aerosol relationship over the Indian region during drought and excess summer monsoon years; *Proc. SPIE* 9882,98820Q, <https://doi.org/10.1117/12.22294479882>.

**Conference  
Publications**

**Arya, V.B.**, Surendran, S. and Rajendran, K. Possible indirect effect of dust aerosols during monsoon breaks over India. IV International Conference On Atmospheric Dust. Monopoli-Italy.

**Workshops**

National workshop on ‘Application of Remote Sensing and GIS in Sea Level Rise Studies’ as part of National Workshop on Technology and Development and Application for Climate Change, CSIR-NIO, Regional Centre, Kochi. 16<sup>th</sup> March 2016.

National workshop on ‘Climate Change and Extreme Events’ as part of National Workshop on Technology and Development and Application for Climate Change, CSIR-NIO, Regional Centre, Kochi. 17<sup>th</sup> March 2016.

National Carbonaceous Aerosols Programme (NCAP), Technical workshop (WP3), IISER Bhopal. 13<sup>th</sup> June 2018.