



Senior Research Fellow
Space Physics Laboratory
Vikram Sarabhai Space Centre
Indian Space Research Organization
Thiruvananthapuram-695022

**Research Area: Investigations of Atmospheric Aerosols over the Himalayas:
Direct and Snow Albedo Forcing.**

Research Supervisor: Dr. Mukunda M. Gogoi

Education:

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| 2014-15 | M. Phil. (Photonics) <i>Department of Optoelectronics, Kariavattom campus, University of Kerala, Thiruvananthapuram, Kerala.</i> |
| 2011-13 | M. Sc. (Physics) <i>Mar Ivanios college, University of Kerala, Thiruvananthapuram, Kerala.</i> |
| 2008-11 | B. Sc. (Physics & Computer Applications) <i>Government college Kariavattom, University of Kerala, Thiruvananthapuram, Kerala.</i> |
| 2006-08 | HSE <i>Government Higher Secondary School Thonnakkal, Thiruvananthapuram, Kerala.</i> |
| 2006 | SSLC <i>Government High School Veiloor, Thiruvananthapuram, Kerala.</i> |

Experience:

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| Jun 2016- Present | Senior Research Fellow <i>Space Physics Laboratory(SPL), Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram.</i> |
| Sep 2015- Jun 2016 | Junior Research Fellow <i>Centre for Atmospheric and Oceanic Sciences (CAOS), Indian Institute of Science (IISc), Bengaluru.</i> Research Area: Atmospheric Aerosols |
| Apr 2015-Aug 2015 | Project Trainee <i>Centre for Atmospheric and Oceanic Sciences (CAOS), Indian Institute of Science (IISc), Bangalore.</i> |

Publications/Conferences/Workshops

- ❖ **B S Arun**, A R Aswini, Mukunda M Gogoi, Prashant Hegde, Sobhan Kumar Kompalli, Parmanand Sharma, S Suresh Babu, “**Physico-chemical and optical properties of aerosols at a background site (~ 4 km a.s.l.) in the western Himalayas**”, *Atmospheric Environment*, 2019.
- ❖ **B.S. Arun**, M. M Gogoi, A. Borgohain, S. S. Kundu, S.K. Kompalli, S. Suresh Babu, **Regional synthesis of Black Carbon Aerosols over the Himalayas: Impact of synoptic source processes and long term trends**, International Water Future Conference, IISc, Bengaluru, September-2019.
- ❖ **B.S. Arun**, M.M Gogoi, P. Hegde, A.R. Aswini, A. Borgohain, S. S. Kundu and S. Suresh Babu, “**Characterization of the zonal asymmetry in aerosols types over the “Third pole”: Radiative implications**”, National Conference on Polar Sciences(NCPS), NCPOR, Goa, August-2019.
- ❖ **Arun B.S.**, Mukunda M. Gogoi, S. Suresh Babu, “**In-situ and modeling investigation of light absorbing aerosols over the Himalayas**”, 31st Kerala Science Congress (KSC), February-2019.
- ❖ **Arun B.S.**, Aswini A.R, Mukunda M. Gogoi, Sobhan K. Kompalli, Prashant Hegde and S. Suresh Babu, “**Physical, Optical and Chemical characteristics of aerosols over Lahaul-Spiti valley in the western Himalayas (4080 m a.s.l.)**”, Conference of Indian Aerosol Science and Technology Association (IASTA), November-2018.
- ❖ Mukunda M. Gogoi, **Arun B.S.** and S. Suresh Babu, “**Black Carbon Aerosols Over the Himalayas: Regional Perspective**”, Proceedings of International Tropical Meteorology Symposium(INTROMET), PP 247-248, 2017.
- ❖ Training on “**Satellite based Sounding of the Atmosphere: Techniques and Applications(SMART)**”, Space Applications Centre(SAC), Indian Space Research Organisation, Ahmedabad, November- 2018.
- ❖ Winter school on “**Atmospheric Aerosol Physics, Measurements and Sampling Techniques**”, National Institute of Oceanography (NIO), GOA, February-2018.
- ❖ Training on “**Glacier studies and Remote Sensing**”, Divecha Centre for Climate Change, Indian Institute of Science (IISc), Bengaluru, June-2017.
- ❖ MADICE Summer Summer School on “**Antarctic Climate Variability and Ice Dynamics**”, National Centre for Antarctic and Oceanic Research (NCAOR), GOA, MAY-2017.

- ❖ **“Preparation and Characterization of RF Magnetron Sputtered Indium doped ZnO Thin Films”**, National Seminar on Advanced Materials Characterization Techniques (AMCT), Department of Physics, University of Kerala, Thiruvananthapuram, Kerala, March-2015.
- ❖ Seminar on **Photonic Materials (PHOTOMAT-2014)**, Department of Optoelectronics, University of Kerala, Thiruvananthapuram, Kerala, December-2014.
- ❖ Summer school on **“Electronic circuit design, programming with microprocessors & C++”**, University college Physics Society, Department of Physics, University college, University of Kerala, Thiruvananthapuram, Kerala, May-2012.

Projects

- ❖ Design and Development of a Hand-Held Multi-Wavelength Solar Radiometer for Studies of Spectral Dependence of Atmospheric Transmittance.
- ❖ Preparation and Characterization of RF Magnetron Sputtered Indium doped ZnO Thin Films.

Scientific field Campaigns

- ❖ Deputed as a participant of **Indian Scientific expedition to Arctic** (NyAlesund, Svalbard), Norway, to make measurements on aerosol characteristics as part of the SPL's Polar Research Program, March- May, 2019.
- ❖ Deputed for the installation and operation of scientific instruments for Aerosol studies from Eastern Himalayan aerosol observatory at Lachung in Sikkim Himalayas, Feb- 2019.
- ❖ Deputed for the installation and operation of scientific instruments for Aerosol studies from Eastern Himalayan aerosol observatory at Lachung in Sikkim Himalayas, Aug-Oct, 2018.
- ❖ Deputed for the installation and operation of aerosol instruments in the western Himalayan observatory at Himansh in the Lahaul-spiti valley, Himachal Pradesh, Aug-Oct, 2017.
- ❖ Deputed for the maintenance and calibration of aerosol instrumentation at Indian Institute of Science(IISc), Bengaluru, Jan-2017.

Awards & Achievements

- ❖ **Young Scientist Award**, National Conference on Polar Sciences(NCPS)- 2019, NCPOR, Goa.
- ❖ ISRO Research Fellowship from Department of Space, Indian Space Research Organization.
- ❖ Research Fellowship from Indian Institute of Science(IISc), Bengaluru.
- ❖ Gate-2015.

Personal Information

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Date of Birth: 04/06/1990

Sex: Male

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Nationality: Indian

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Thiruvananthapuram, Kerala-695317

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