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SCIENTIST - SD
SPACE PHYSICS LABORATORY (SPL)
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Academic Qualifications

MSc (Physics), M.Phil (Physics)
(University of Kerala)

Professional Experience

Scientist-SD	2015-present	SPL, VSSC, ISRO
Scientist-SC	2014-2015	SPL, VSSC, ISRO
Scientist-SC	2010-2013	NRSC, ISRO

Software skills

Programming Languages : C,C++

Software tools : MATLAB, ERDAS, ENVI, ArcGIS, GEOMATICA, Origin

Operating Systems exposure : Linux/ Windows

Research Areas & Research Interests

1. Remote Sensing data processing (Value Added Products development, Digital Image Analysis & Quality Assessment)
2. Studies on Atmospheric Trace gases (Ozone, Nitrogen Oxides, Carbon Monoxide, Methane, etc) based on in-situ measurements and satellite observations

Major Projects Involved

1. Natural Resources Census (NR-CENSUS) Project
2. BHUVAN Project

3. Snow Melt run-off studies project
4. Atmospheric Trace gases-Chemistry, Transport and Modelling (AT-CTM) project under Geosphere Biosphere Programme of ISRO (ISRO-GBP)

Awards & Honours

1. Qualified Kerala State Council for Science, Technology and Education (KSCSTE) Research fellowship, 2009.

Publications

1. Nair, P. R., **Revathy, S. A.**, David, L. M., Girach, I. A., and Kavitha, M., Decadal changes in surface ozone at the tropical station Thiruvananthapuram (8.542° N, 76.858° E), India: effects of anthropogenic activities and meteorological variability. Environmental Science and Pollution Research. <https://doi.org/10.1007/s11356-018-1695-x>, 2018.

Participation in Conference/Symposium/Workshop

1. **Revathy S. A.**, P. R Nair, Girach I. A. and L. M. David," Long-term changes in near-surface and tropospheric ozone at the coastal environment of Thiruvananthapuram", National Space Science Symposium-2016, February 9-12, Vikram Sarabhai Space Centre, Trivandrum.
2. P. R. Nair, Girach I. A., **Revathy S. A.**, Kavitha M., and Aryasree S., Systematic seasonal pattern of tropospheric trace species over Indian region, TROPMET 2016 – National Symposium on Tropical Meteorology: Climate Change and Coastal Vulnerability during 18-21 December 2016 at SOA University, Bhubaneswar.
3. Workshop on Advanced Statistical Concepts in Atmospheric and Oceanic Sciences, February 23-28, 2015, ESSO-INCOIS, Hyderabad.
4. National workshop on Space Application for Sustainable Growth and Advancement, SAGA 2017, May 19-20, 2017, Mascot Hotel, Thiruvananthapuram.
5. Workshop on "Applications of Remote Sensing and Geographical Information System", August 6-10, 2018, IIRS, Dehradun.