

# Dr. Lavanya S

## Personal Info

### Email

lavanyas@hotmail.com

### Phone

+91-9995531955

## Skills

Verbal Communication ★★★★★

Time management ★★★★★

Presentation skills ★★★★★

Fast Learner ★★★★★

Problem solving ★★★★★

Written Communication ★★★★★

Research Skills ★★★★★

Teamwork Skills ★★★★★

Presentation skills ★★★★★

Data analysis ★★★★★

## Software

MATLAB ★★★★★

Microsoft Excel

Microsoft Word

Origin ★★★★★

C++ ★★★★★

Java ★★★★★

## Languages

English ★★★★★

Malayalam ★★★★★

Hindi ★★★★★

Address:

House no.A17

NSS Lane

Valiyavila

Thirumala PO

Trivandrum 695006

## Work History

Sep 2020 - Aug 2022 **Post Doctoral Research Associate**  
*Space Physics Laboratory, ISRO, Trivandrum*

Jan 2016 - Jan 2019 **Senior Research Fellow**  
*Space Physics Laboratory, ISRO, Trivandrum*

Jan 2014 - Jan 2016 **Junior Research Fellow**  
*Space Physics Laboratory, ISRO, Trivandrum*

## Education

Aug 2020 **Physics, Doctorate**  
(Title of thesis: Studies on Characteristics of raindrop size distribution and Rain integral parameters under distinct Precipitation conditions over tropical coastal region.)  
*University of Kerala, Trivandrum*

Dec 2011 **Physics with specialisation in Electronics, Master of Science**  
*University of Kerala, Trivandrum*

Jul 2009 **Phyics with subsidiary Mathematics and Electronics, Bachelor of Science**  
*University of Kerala, Trivandrum*

Mar 2006 **Science , Computer Science, Class XII , AISSCE (CBSE)**  
*Bharatiya Vidya Bhavan, Trivandrum*

Mar 2004 **Class X, CBSE**  
*Bharatiya Vidya Bhavan, Trivandrum*

## Certificates

**CSIR NET (Physical Science) All India Rank 19 (Lectureship).**

**JEST (Physics) , All India Rank 385**

**GATE (Physics), All India Rank 381**

Dec 2020 **Peer Reviewer in International Journal (Elsevier)**

## Awards

- Feb 2018      **Young Scientist title award in Indian Radar Meteorology (iRAD-2018)**
- Mar 2011      **Won First position for paper presentation in National Seminar on Emerging Trends in Physics (ETP) 2011.**

### Publications in International Journals

- **Lavanya S,** & Kirankumar, N. V. P. (2021). *Classification of tropical coastal precipitating cloud systems using disdrometer observations over Thumba, India.* Atmospheric Research, 105477
- **Lavanya S,** N.V.P.Kirankumar, S.Aneesh, K.V.Subrahmanyam, S.Sijikumar (2019), *Seasonal variation of raindrop size distribution over a coastal station Thumba: A quantitative analysis,* Atmospheric Research. 229, 86-99. <https://doi.org/10.1016/j.atmosres.2019.06.004>.
- **Lavanya S,** and N.V.P.Kirankumar, *Seasonal variations of raindrop size distributions and understanding the variability of Z-R relations over the coastal station Thumba (8.5 N, 76.9 E), SPIE Asia Pacific Remote Sensing Conference, New Delhi, 4-7 April 2016.*
- KiranKumar N.V.P. and **Lavanya S,** *Variation of DSD parameters during stratiform precipitation over a coastal station Thumba (8.5 N, 76.9 E) using MRR observations, SPIE Asia Pacific Remote Sensing Conference, New Delhi, 4-7 April 2016.*
- KiranKumar N.V.P. and **Lavanya S,** *Raindrop Size Distribution and Rain Characteristics during the extreme events in the Tropical coastal station Thumba URSI Asia-Pacific Radio Science Conference (AP-RASC), 2019, IEEE DOI:10.23919/URSIAP-RASC.2019.8738409*

### Symposium/ Conference/ Workshop

- *Presented a technical session in the National Symposium TROPMET 2018, organised by Indian Meteorological Society on "Understanding Weather and Climate Variability: Research for Society", at BHU Varanasi.*
- *Presented paper in the 19th National Space Science Symposium held at VSSC, Trivandrum.*
- *Participated in the First User Scientists Workshop on the Applications of Stratosphere Troposphere Wind Profiler Radar, conducted at Advanced Centre for Atmospheric Radar Research, CUSAT, Cochin*
- **Lavanya S,** and N.V.P.Kirankumar, *An algorithm to detect and correct aliasing errors in micro rain radar associated with strong vertical winds, 2nd conference on India Radar Meteorology 2018 (iRAD 2018), NARL, Gadanki, 08-11 January 2018, India.*
- **Lavanya S,** and N.V.P.Kirankumar, *Quantification of raindrop size distribution over tropical coastal station Thumba, 2nd conference on India Radar Meteorology 2018 (iRAD 2018), NARL, Gadanki, 08-11 January 2018, India.*
- **Lavanya S,** and N.V.P.Kirankumar, *Characterization of precipitating systems over coastal station, Thumba (8.5 N, 76.9 E), India Conference on Radar Meteorology (iRAD-2017), January 08-11, 2017.*
- **Lavanya S,** and N.V.P.Kirankumar, *Classification of precipitating systems Micro Rain Radar and disdrometer over Thumba (8.5 N, 76.9 E), 3rd URSI Regional Conference on Radio Science. (3rd URSI-RCRS), Tirupati, 1-4 March 2017.*
- **Lavanya S,** and N.V.P.Kirankumar, *Seasonal variations of raindrop size distributions and associated Z-R relations over a coastal station Thumba, 19th National Space Science Symposium, Trivandrum, 09-12 Feb 2016.*
- KiranKumar N.V.P., **Lavanya S** and K.V. Subrahmanyam, *Assessment of raindrop size distributions and Z-R relations over coastal station Thumba during cyclones, SPIE Asia Pacific Remote Sensing Conference, New Delhi, 4-7 April 2016.*