

## Curriculum vitae

Lavanya S  
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Microwave and Boundary Layer Physics  
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### **Area of Research Interest**

- **Precipitation Characteristics:**

Microphysics of rain, classification of precipitating system, rain droplet size distribution, reflectivity-rainrate relationships.

Research Supervisor: Dr. N.V.P. Kirankumar

### **Academic Qualification:**

- BSc Physics (2006-2009) : HHMSPBNSS College, Trivandrum (University of Kerala)
- MSc Physics (2009-2011) : Mahatma Gandhi College, Trivandrum (University of Kerala)

### **Research Positions:**

Jan 2014 -Jan 2016	Junior Research Fellow	SPL, VSSC, Trivandrum
Jan 2016 -till date	Senior Research Fellow	SPL, VSSC, Trivandrum

### **Fellowship/ Awards:**

- **Young Scientist Award** (II prize) at 2<sup>nd</sup> conference on India Radar Meteorology 2018 (iRAD 2018), NARL, Gadanki, 08-11 January 2018, India
- **All India 19<sup>th</sup> Rank** in NET 2015
- **All India 385 Rank** in JEST-2014
- **All India 381 Rank** in GATE-2013

### **Proceedings:**

1. 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, *Proceedings of SPIE Asia Pacific Remote Sensing Conference* Vol. 9876, Remote Sensing of the Atmosphere, Clouds, and Precipitation VI, 98763K (May 5, 2016); doi:10.1117/12.2228125; <http://dx.doi.org/10.1117/12.2228125>, 2016
2. **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), *Proceedings of SPIE Asia Pacific Remote Sensing Conference* Vol. 9876, Remote Sensing of the Atmosphere, Clouds, and Precipitation VI, 98760K (May 5, 2016); doi:10.1117/12.2223990; <http://dx.doi.org/10.1117/12.2223990> , 2016

### **Conference/Symposium/Presentations:**

1. **Lavanya S** and N.V.P.Kirankumar, "An algorithm to detect and correct aliasing errors in micro rain radar associated with strong vertical winds", 2<sup>nd</sup> conference on India Radar Meteorology 2018 (iRAD 2018), NARL, Gadanki, 08-11 January 2018, India
2. **Lavanya S** and N.V.P. Kirankumar, "Quantification of raindrop size distribution over tropical coastal station Thumba", 2<sup>nd</sup> conference on India Radar Meteorology 2018 (iRAD 2018), NARL, Gadanki, 08-11 January 2018, India
3. **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
4. **Lavanya S** and N.V.P. KiranKumar, Classification of precipitating systems Micro Rain Radar and disdrometer over Thumba (8.5 N, 76.9 E), 3<sup>rd</sup> URSI Regional Conference on Radio Science. (3<sup>rd</sup> URSI-RCRS), Tirupati, 1-4 March 2017.
5. 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
6. 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.
7. **Lavanya S.** and N.V.P. Kirankumar, Seasonal variations of raindrop size distributions and associated Z-R relations over a coastal station Thumba, *19<sup>th</sup> National Space Science Symposium*, Trivandrum, 09-12 Feb 2016.
8. **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.