

Dr. Jayeshlal G.S.

Asst. Professor
Dept. of Physics
Christian College, Kattakada
Thiruvananthapuram
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ACADEMIC DETAILS

Course	Duration	University
Name of course	Year - year	Name, Address
BSc in Physics	2002-2005	Kerala University
M.Sc in Physics	2005-2007	M. G. University Kottayam
MPhil. in Photonics	2009-2010	Kerala university
Ph.D in Optoelectronics	2011-2018	Kerala University

AREA OF ACADEMIC INTERESTS

Optics, Optoelectronics, Spectroscopy, Atmospheric Science, Cloud microphysics.

ACADEMIC BODIES/ DUTIES

CORE COMPETENCIES

- :Expertise in handling
- Operating System: Windows
- General: Microsoft Office, Internet Applications.

- Proficiency in using the web platform MOOC MOODLE

RESEARCH/ ACADEMIC EXPERIENCE

January 2021 to 22/02/2021

Designation : Assistant Professor
Institute : Christ Nagar College Maranallur

June2018 – March 2020

Designation : Gust Lecturer
Institute : St Xavier's College Thumba.

PUBLICATIONS

1. **Jayeshlal,G.S**., Satyanarayana,M., Dhaman,R.K., &Motty, G. S. "Seasonal and Optical Characterisation of Cirrus Clouds over Indian Sub-Continent Using LIDAR"
   AIP Conf. Proc. 1620 (2014),179-184. (AIP)
   http://dx.doi.org/10.1063/1.4898237
2. **Jayeshlal, G. S.**, Satyanarayana, M., Motty, G. S., Dhaman, R. K., Krishnakumar, V. &Pillai, V. P. M. "Lidar investigations on the structure and microphysical properties of cirrus at a tropical station Gadanki (13.5° N and 79.2° E), India."
   Proceedings of SPIE,9876(2016), 98761U(1 – 8).
   doi: 10.1117/12.2222294
   ***ISSN No:*0277-786X**
3. **Jayeshlal, G.S.**, Satyanarayana,M., Motty, G.S., Dhaman,R.K.,Sudheer, S., Krishnakumar,V.,&Pillai,V.P.M. "Correlation analysis of lidar derived optical parameters for investigations on thin cirrus features at a tropical station Gadanki(13.5° N, 79.2° E)." *Indian Journal of Radio &Space Physics*; IJRSP-353 Vol 46, March 2018, pp 9-19
   http://14.139.47.23/index.php/IJRSP/article/viewFile/16605/465477402
   ***ISSN No*: 0367-8393**
   Motty, G. S., Satyanarayana, M., Krishnakumar, V. ,Dhaman, R.K., &**Jayeshlal, G. S.**
4. "Cirrus Cloud -Temperature Interactions Over A Tropical Station, Gadanki From Ground Based And Satellite Lidar Observations." *AIP Conf. Proc.*, 1620 (2014),332-338
   http://dx.doi.org/10.1063/1.4898261
   ISSN No: 0094-243X

5. **Jayeshlal, G.S.**, Satyanarayana,M., Motty, G.S., Dhaman,R.K., Krishnakumar,V.,Pillai,V.P.M, Rao, D.R.,Sudhakar, P & P Kalavathi. "Lidar Studies On The Optical Characteristics Of High Altitudecirrus Clouds At A Low Latitiude Station, Gadanki (13.5N, 79.2E) India." *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XL-8 (2014), 253-256.
   doi:10.5194/isprsarchives-XL-8-253-2014
6. Motty,G.S., **Jayeshlal, G.S.,** &Satyanarayana,M. "Climatology Of Thin Cirrus Clouds at Gadanki (13.5°N, 79.2°E) Using Ground Based Lidar And Satellite Based Measurements."*The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XL-8 (2014), 253-256.
   doi:10.5194/isprsarchives-XL-8-283-2014
7. Krishnakumar,V.,Satyanarayana, M., Radhakrishnan,S.R., Dhaman,R.K., **Jayeshlal,G. S.**,Motty,G.S., Pillai,V.P.M., Regunath,K.,Ratnam,M.V., Rao, D.R., &Sudhakar, P. "Lidar investigations on the optical and dynamical properties of cirrus clouds in the upper troposphere and lower stratosphere regions at a tropical station, Ggadanki, India (13.5° N, 79.2° E)." *Journal of Applied Remote Sensing*, 8 (2014), 083659(1-21).
   DOI: 10.1117/1.JRS.8.083659
   ISSN No: 1931 3195
8. Optical properties of cirrus clouds in the tropical tropopause region during two contrasting seasons
   Motty, G. S., Satyanarayana, M., **Jayeshlal, G.S.**, Krishnakumar,V.,&Pillai, V.P.M
   Indian J. of Radio & Space Phys. 44(2015), 155-166.
   ***ISSN No*: 0367-8393**
9. Motty,G.S., Satyanarayana,M., **Jayeshlal, G.S.**, &Pillai, V.P.M., "Climate sensitivity characteristics of tropical cirrus clouds using lidar measurements." *J. Appl. Remote Sens.* 10(4) (2016),046005(1 – 8).
   doi: 10.1117/1.JRS.10.046005.
   ISSN No: 1931 3195
10. Motty,G.S., **Jayeshlal, G.S.,** Satyanarayana,M. &Pillai, V.P.M. "Lidar studies on climate sensitivity characteristics of tropical cirrus clouds." *Proc. of SPIE*, 9876 (2016), 98761X (1 –8). doi: 10.1117/12.2223301
    ***ISSN No:*0277-786X**
11. Dhaman, R.K., Satyanarayana, M.,Krishnakumar, V., Pillai,V.P.M.,**Jayeshlal, G. S.**, Raghunath, K., &Ratnam,M.V. "Macro-physical, optical and radiative properties of tropical cirrus clouds and its temperature dependence at Gadanki (13.5° N, 79.2° E) observed by ground based lidar". *Indian Journal of Radio & Space Physics*, 45 (2016), 133-147.
    ***ISSN No*: 0367-8393**

12. Dhaman,R.K., Satyanarayana,M., Krishnakumar,V., Pillai,V.P.M., **Jayeshlal G.S.**, Raghunath, K. &Ratnam M.V. "Investigation of tropical cirrus cloud properties using ground based lidar measurements". *Proc. of SPIE*, 9876(2016), 98760P (1-10).(SPIE)
    doi: 10.1117/12.2222314
    ***ISSN No:*0277-786X**
13. G.S Motty, Malladi Satyanarayana, **G.S Jayeshlal**, V Krishnakumar, V.P Mahadevan Pillai. "Lidar Observed structural characteristics of higher altitude cirrus clouds over a tropical site in Indian subcontinent region."Journal Of Atmospheric and Solar-Terrestrial Physics179(2018) 367-377 (ELSEVIER)
    ISSN: 1364-6826

SYMPOSIA & WORKSHOPS

1. Study of CIRRUS Clouds Using Ground Based LIDAR System

   Jayeshlal,G.S., Satyanarayana,M., Dhaman,R.K. &Krishnakumar,V., National Conference on Recent Trends in Electronic Communication and Signal Processing held at SreeAyyappa College, Eramallikkara, Chengannur during 20-21st December, 2013.
2. Seasonal and Optical Characterization of Cirrus Clouds over Indian Sub-Continent using LIDAR.

   Jayeshlal,G.S., Satyanarayana,M., Dhaman,R.K., &Motty,G.S.,OPTICS'14: International conference on light held at National Institute of Technology, Calicut during 19-21st March,2014.
3. Lidar Studies on the Optical Characteristics of High Altitude Cirrus Clouds at A Low Latitiude Station, Gadanki (13.50n, 79.20e) India.

   Jayeshlal,G.S.,Satyanarayana ,M., MottyG.S., Dhaman, R.K., Krishnakumar,V., Pillai,V.P.M., Ramakrishnarao D., Kalavathi,S.P., Operational RS Application: Opportunities, Progress and Challenges; ISPRS TC VIII Mid Term Symposium held at Hyderabad during 9-12thDecember, 2014.
4. Investigation on the structure and microphysical properties of cirrus clouds using Lidar.**Jayeshlal G.S.**, Satyanarayana, M., Dhaman,R.K., Motty,G.S., Krishnakumar, V.&Pillai, V.P.M., National seminar on Photonics and its

applications (NSPA-2015) held at Department of Optoelectronics,University of Kerala during 9-11thDecember,2015.

5. Investigation on the Lidar Ratio variations to study the effects of aerosols on cirrus clouds

   Jayeshlal G.S., Satyanarayana, M., Motty,G.S., Dhaman,R.K., Krishnakumar, V., &Pillai, V.P.M., National space science symposium(NSSS-2016)held at Space Physics Laboratory, Vikram Sarabhai Space centre, Thiruvananthapuram during 9 -12thFebruary,2016.

6. Lidar investigations on the structure and microphysical properties of cirrus at a tropical station Gadanki (13.5^0 n and 79.2^0 e), India

   Jayeshlal G.S., Satyanarayana, M., Motty, G. S., Dhaman, R. K., Krishnakumar, V. &Pillai, V. P. M., Symposium onSPIE ASIA-PACIFIC REMOTE SENSINGheld at New Delhi, India during 4-7thApril, 2016.

7. Seasonal Variations of Optical Properties Of Cirrus Clouds Using Laser Remote Sensing Methods

   Motty, G. S., Satyanarayana, M., Krishnakumar V., DhamanR.K.,&**Jayeshlal G. S.**, International Conference on 'Advanced Materials and its Applications' (ICAMA 2014) held at Alphonsa College, Pala during 26- 28thMarch, 2014.

8. Properties of cirrus clouds from the lidar measurements over Gadanki during south west monsoon season

   Motty, G. S., Satyanarayana, M., Krishnakumar, V., Dhaman,R.K. &**Jayeshlal, G.S.,** National Laser Symposium (NLS)-23 held at Department of Physics, Sri Venkateswara University, Tirupati during 3 – 6thDecember, 2014.

9. Climatology of thin cirrus clouds at Gadanki (13.50N,79.20E) using ground based lidar and satellite based measurements.

   Motty, G.S., **Jayeshlal, G.S.,**&Satyanarayana,M., ISPRS TC VIII Mid-Term Symposium-2014 held at Hyderabad, India during 9 -12thDecember, 2014.

10. Cirrus climatological results over a tropical station, Gadanki using ground based and satellite based measurement techniques.

    Motty,G.S.**,** Satyanarayana,M., &**Jayeshlal, G.S.,** 27th Kerala Science Congress held at Alappuzha during 27- 30th January, 2015.

ACHIEVEMENTS

- DST PURSE Fellow.

PERSONALDETAILS

Profile	**: Male, 36, married**
Nationality	**: Indian**
Date of Birth	**: 20.01.1985**
Current Location	**: Thiruvananthapuram, Kerala**
Name of Father	**: Glory Selvan S**
Qualification	**: Ph.D**
Languages known	**: Malayalam English Hindi**
Hobbies	**: Music, Reading**

PERMANENT ADDRESS

Selvins, Perumaram, Vizhinjam P.O. Thiruvananthapuram.