



## **CURRICULUM VITAE**

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**JAYALEKSHMI G. L.**  
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**Space Physics Laboratory**  
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### **EDUCATIONAL BACKGROUND**

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2019 December-present : Research Associate, Space Physics  
Laboratory (SPL),

VSSC, ISRO

Post-Doctoral Fellow (Nov 2019) : Department of Earth and Space  
Sciences, IIST,

Valiamala, Thiruvananthapuram,  
Kerala, India

Doctor of Philosophy (2019) : Physics, University college,  
Thiruvananthapuram,

University of Kerala, Kerala, India

Master of Philosophy (2011) : Physics, University college,  
Thiruvananthapuram,

University of Kerala, Kerala, India

Bachelor of Education (2010) : Physical Science, KUCTE,  
Kaniyapuram, University of

Kerala, Kerala, India

Master of Science (2008) : Physics, S.D. College, Alappuzha,  
University of Kerala,

Kerala, India

Bachelor of Science (2006) : Physics, M.M.N.S.S. College, Kottiyam,  
University of Kerala, Kerala, India

## **WORKSHOPS/SEMINARS/PRESENTATIONS**

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- Participated in COSPAR capacity building workshop on 'Coronal and Interplanetary Shocks: Analysis of data from Space and Ground based Instruments' held at Kodaikanal Solar Observatory, Kodaikanal, Tamilnadu during 6-17 January 2020.
- Presented a paper on 'Solar cycle related variations in geomagnetic storms' in National Seminar on Foundations in Theoretical Physics & Astronomy held at Department of Physics, University college, Thiruvananthapuram during 31 October-02 November 2018
- Presented a paper on 'Distribution of hemispheric solar activity during various phases of solar cycles' at IAU Symposium 340, Long-term Datasets for the Understanding of Solar and Stellar magnetic Cycles held at B. M. Birla Auditorium, Jaipur, India during 19-24 February 2018
- Presented a paper on 'Prediction of upcoming grand episodes of solar activity' in IAU Symposium 340, Long-term Datasets for the Understanding of Solar and Stellar magnetic Cycles held at B. M. Birla Auditorium, Jaipur, India during 19-24 February 2018
- Presented a paper in National seminar on Trends in Theoretical Physics held at Department of Physics, University college, Thiruvananthapuram, 12-13 January 2017
- Participated in a 'Workshop on MATLAB Programming with A Control & Image Processing' organized by KVM College of Engineering & Information Technology during 13-14 June 2016

- Participated in a 'Workshop on Statistical Computing Using R' organized by Department of Statistics, Government Arts College, Thiruvananthapuram during 26-27 February 2016
- Presented a paper on 'Comparison of Periodicities in Solar and Geomagnetic Activities' in National seminar on current Perspective in Physics held at University college, Thiruvananthapuram, 15-16 February 2016
- Presented a paper on 'Solar Activity related Periodicities in Geomagnetic Storms' in 19<sup>th</sup> National Space Science Symposium held at VSSC, Thiruvananthapuram, 9-12 February 2016
- Presented a paper on 'Long-term periodicities in Solar and Geomagnetic activities' in UGC sponsored National Seminar on Perspectives in Raman Spectroscopy held at St.John's College, Anchal, Kerala, 15-16 October 2015
- Presented a paper on 'Wavelet Analysis of Grand Episodes in Sunspot Numbers' in National symposium on Plasma Science and Technology (PLASMA-2014) held at School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, 8-11 December, 2014
- Presented a paper on 'Potential Analysis of Sunspot Dynamics' in National Seminar on New frontiers in Physics-Scope and Challenges held at St.Xavier's, Thumba, 28-30 October 2014
- Presented a paper on 'Comparative study of potential analysis of sunspot numbers, sunspot area and sunspot unit area' in AGSAR-2014 held at Christian College, Chengannur, 13-15 March 2014
- Participated in 'Workshop on Academic Writing and Publishing' organized by The Kerala State Higher Education Council, Thiruvananthapuram during 20-21 February 2014
- Participated in 'Workshop on Research Methodology, writing Language & Soft skills' organized by Kerala State Council for Science, Technology and Environment, Sasthra Bhavan, Thiruvananthapuram during 3-5 February 2014
- Presented a paper on 'Wavelet analysis of the Periodicities in Relative Sunspot Numbers and Dst Indices' in International Conference of Asia Oceanic Geosciences Society, Brisbane, Australia, 24-28 June 2013

- Presented a paper in Two-day State Level Seminar on Fundamental and Applied Physics, Govt. Arts College, TVM ,13-14 December 2012

## **PUBLICATIONS IN JOURNALS /CONFERENCE PROCEEDINGS**

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- Jayalekshmi G. L., Prince P. R. and Satheesh Kumar K., Potential analysis of sunspot parameters and behaviour of random noise  
Indian Journal of Radio & Space Physics, 46, 55-65, 2017
- Jayalekshmi G. L., and Prince P. R., Study of periodicities in relative sunspot numbers and disturbance storm time indices using wavelet techniques, Indian Journal of Physics, 88, 1221-1226, 2014
- Jayalekshmi G. L., and Prince P. R., Solar activity related periodicities in sea surface temperature Journal of Ultra Scientist of Physical Sciences, 28, 134-141, 2016
- Jayalekshmi G. L., and Prince P. R., Prediction of upcoming grand episodes of solar activity, Proceedings of the International Astronomical Union, 13(S340), 325-326, 2018
- Jayalekshmi G. L., and Prince P. R., Distribution of hemispheric solar activity during various phases of solar cycles, Proceedings of the International Astronomical Union, 13(S340), 261-262, 2018

## **AWARDS AND HONORS**

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- Best Poster Award for the paper entitled 'Distribution of hemispheric solar activity during various phases of solar cycles' at IAU Symposium 340, Long-term Datasets for the Understanding of Solar and Stellar magnetic Cycles held at B. M. Birla Auditorium, Jaipur, India during 19-24 February 2018

- Best Poster Prize by Springer at IAU Symposium 340, Long-term Datasets for the Understanding of Solar and Stellar magnetic Cycles held at B. M. Birla Auditorium, Jaipur, India during 19-24 February 2018
- IAU Travel Grant Awardee at IAU Symposium 340, Long-term Datasets for the Understanding of Solar and Stellar magnetic Cycles held at B. M. Birla Auditorium, Jaipur, India during 19-24 February 2018