

Mrs. Linitha Nair

Assistant Professor

(Agrl. Meteorology),

RARS(SZ), Vellayani

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Summary

A self-motivated person who enjoys working in a creative and challenging environment, building a dynamic career in the versatile research and development field of Agricultural Meteorology, urge to excel in any assignment, and desire to upgrade my knowledge and skills continuously.

My research interest is in numerical weather prediction which I started doing in my post-graduation thesis work. Later the application of reliable and accurate weather forecasts in issuing agro advisories to the farming community persuaded me. I have a keen interest and research expertise in crop weather models as well. Currently, I am working on weather-based pests forewarning in paddy using artificial intelligence for providing expert advice to rice growers in Kerala.

Experience

- Assistant Professor at Department of Agricultural Meteorology, Regional Agricultural Research Station (Southern Zone), Vellayani, Kerala Agricultural University, India and holding the additional charge of Nodal Officer of Gramin Krishi Mausam Sewa, a project funded by India Meteorological Department (IMD), New Delhi from 18th March 2019 till date.
 - Agricultural officer at Department of Agriculture, Kerala from 17th August 2018 to 13th March 2019
 - Teaching Assistant at Department of Agricultural Meteorology, Kerala Agricultural University, India and holding the additional charge of Technical Officer of Gramin Krishi Mausam Sewa, India Meteorological Department (IMD), New Delhi from 28 March 2015 to 30th April 2018
 - Research Associate in project entitled *Crop Pest Surveillance* under Kerala State Planning Board at IITMK, Thiruvananthapuram, Kerala from March 19th 2014 to March 19th 2015.
 - Research Associate in project entitled *Socio economic analysis for farmer participatory development in homesteads of Kerala* under Kerala Agricultural University, from June 2013 to January 31st 2014.
 - Research Associate in project entitled *National initiative on climate resilient agriculture* from March 2011 to March 2013 at Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.
 - Agricultural officer at Dhanlaxmi Bank Ltd, Kerala from March 2010 to July 2010
 - Senior research fellow at Tamilnadu Agricultural University (TNAU), Coimbatore from September 2009 to March 2010.
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Education

- Graduated in Agriculture from Kerala Agricultural University (2006)
- Post graduation in Agricultural Meteorology from Tamilnadu Agricultural University, Coimbatore

Software and Technical Skills

- **Operating systems** : Windows, MacIntosh
- **Package/Tools** : SPSS, GrADS, Q-GIS, Weather Cock
- **Modeling** : WRF, DSSAT, AQUACROP, CROPWAT

Area of Specialization

- Diseases Crop weather modeling, Numerical weather prediction

Awards & Recognitions

- ICAR Junior Research Fellowship for pursuing MSc in Agricultural Meteorology during 2007-09
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Research Projects

Ongoing

- Gramin Krishi Mausam Sewa (GKMS) project funded by India Meteorological Department since 2019
 - Kerala State Planning Board funded project “ Artificial Intelligence and predictive analysis for crop pest forewarning of rice using medium range block level weather forecasts in selected agroecological units of Kerala”- Developing android mobile application for farmers
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Publications

Journal Articles

(Scopus indexed)

1. Linitha Nair and Smitha Balan (2022). Recent floods in Kerala and its impact on rice yield in Kuttanad- A retrospective analysis. *Mausam*. Vol 73(3):689-694
2. Sheeba RI and Linitha Nair (2016). Effect of bunch management practices on yield and quality in banana. *Indian Journal of Ecology*. Vol 43. (Special issue-1):254-257.
3. B. Bapuji Rao, V.U.M Rao, Linitha Nair, Y. G. Prasad, A. P. Ramaraj and C.Chattopadhyay (2014). Mustard aphid infestation in India: Development of forewarning models. *Journal of Environmental Biology*. Vol 35(4):683-688, July 2014.B.
4. B. Bapuji Rao, Linitha Nair, B. Bhavani, N. Venugopala Rao and V.U.M. Rao (2013). Early shoot borer (*Chilo infuscatellus Snellen*) incidence in sugarcane – Role of weather in a warm sub-humid climate of India. *INTERNATIONAL SUGAR JOURNAL Vol.115, Feb. 2013*

5. B. Bapuji Rao, Linitha Nair, B. Bhavani and V.U.M. Rao. Weather and scale insect (*Melanaspis glomerata*) interactions in sugarcane. *INTERNATIONAL SUGAR JOURNAL* 2012, Vol. 114, No. 0000
6. V. U. M. Rao, Linitha Nair, B. Bapuji Rao and P.Vijaya Kumar (2012). Climatic sensitivity of mustard crop in northern India: An assessment of yields in future climates from real time data. *J.Agronometeorology* 14 (Special Issue) 10-18.
7. Rao, V.U.M., Bapuji Rao, B., Linitha Nair, Diwan Singh, Chandrasekhar. And Venkateswarlu, B. 2011. Thermal sensitivity of mustard (*Brassica juncea* L.) crop in Haryana. *Journal of Agronometeorology* 13 (2): 131-134.

Article not indexed in Scopus

1. Bapuji Rao, V.U.M. Rao, Linitha Nair, Y.G. Prasad, A.P. Ramaraj and C. Chattopadhyay (2013). Assessing aphid infestation in Indian mustard under present and future climate scenarios. Bangladesh J.Agril. Res. Vol.38(3): 373-387, Sep 2013.
2. B. Bapuji Rao, Linitha Nair, V.U.M. Rao, M.K. Khushu and R. Hussain. Assessing the impacts of increased temperature on mustard (*Brassica juncea* L.) yields using real time data from diverse environments. *Cruciferae Newsletter* 2012 Vol. 31.
3. B.Bapuji Rao, U.Triveni, Linitha Nair, N. Harisatyanarayana, P.Latha, and V.U.M. Rao. Assessment of influence of weather parameters on Mesta (*Hibiscus sabdariffa*) in North Coastal Zone of Andhra Pradesh. *Indian J.Dryland Agric.Res. & Dev.*2012 27(2) : 26-30.
4. V.U.M. Rao, B.Bapuji Rao, Linitha Nair, H.R.Patel, A.V.M.S. Rao and P.Vijaya Kumar. Climatic variability and Productivity of Rainfed Groundnut in Middle Gujarat Agroclimatic Zone. *Indian J.Dryland Agric. Res. & Dev.*2011 26(2): 44-49.

Popular Articles

1. *Cloud Computing in Agriculture (2021)* in *Kalpadhenu*, a quarterly magazine from Kerala Agricultural University

Books/Chapters in Books

1. Book chapters in “**Weather and Plant health management in Kerala**” by Kerala State Planning Board
2. Introduction by Dr. P. Rajasekharan and Linitha Nair
3. Weather induced stress response in crop of Kerala by Dr.Salini. V.S , Dr. P. Rajasekharan, Linitha Nair and Dr. C.K. Peethambaran
4. Weather station and database in Kerala by Dr. P. Rajasekharan and Linitha Nair
5. Climatic variability in Kerala over recent years- an analytical approach by Linitha Nair and Dr. P. Rajasekharan
6. Way forward by Dr. P. Rajasekharan, Linitha Nair and Dr. C.K. Peethambaran

Seminar/Symposium presentation

- Participated and presented paper entitled “Sowing strategies for yield optimization in mustard (*Brassica juncea* L.) in varied climates in relation to weather variables” in TROPMET-2011: Meteorology for Socio-economic Development held at Hyderabad during 14-16 December 2011.

- Participated and presented paper entitled “Climatic Sensitivity of Mustard Crop in Northern India: An Assessment of Yields in Future Climates from Real Time Data” in National seminar on “Agrometeorological Research and Services to Combat climate change Challenges” at Bidhan Chandra Krishi Viwavidhyalaya, Kalyani, West Bengal during 9th-10th December 2011.
- Participated in National Conference on “Impacts of Climate Change with Particular Reference to Agriculture” at TNAU, Coimbatore on 22-24 Aug 2007.

Trainings attended

- DST sponsored 5th SERC school on Agricultural Drought- Climate Change and Rainfed Agriculture at CRIDA 20th Jan- 9th Feb 2011
- Training on DSSAT at CRIDA on October 2011

Other Institutional Responsibilities

- Acting as Head of Department of Ag.Meteorology, College of Agriculture, Vellayani
- Nominated as the member of Technical Committee, College of Agriculture, Vellayani
- Acting as one of the domain expert in the Technical Advisory Panel of Agriculture Division, Kerala State Planning Board
- Serving as expert member of the State Level Technical Committee for crop weather watch group

Membership in Professional Associations

- Life member of Association of Agrometeorologists