

Anjali C V

Research Scholar

Centre of Studies in Resources Engineering, IIT Bombay, India

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Research interests

I am an aspiring PhD student with a keen interest in sustainable agriculture and natural resource management. My research focuses on the use of remote sensing to monitor soil moisture and vegetation dynamics. I am passionate about applying science and technology to support climate adaptation and sustainable land use. My goal is to contribute to data-driven solutions that enhance agricultural resilience and resource conservation.

Education

- **IITB-Monash Research Academy** **Mumbai-Melbourne**
Doctor of Philosophy
Thesis: Passive microwave remote sensing of soil moisture and vegetation
Advisors: Prof. Karthikeyan Lanka and Prof. Jeffrey Walker
2024 to Present
- **Indian Institute of Technology Kharagpur** **Kharagpur**
M.Tech. in Water Engineering and Management
Thesis: Lag time analysis of drought propagation dynamics | Grade: 9.1/10
Advisor: Prof. Renji Remesan, School of Water Resources
2021-2023
- **Kerala Agricultural University** **Thrissur**
B.Tech. in Agricultural Engineering
Thesis: Artificial Neural Network model for runoff prediction | Grade: 8.55/10
Advisor: Prof. Anu Varughese
2017-2021

Work Experience

- **Agri Engineer** **Palakkad**
IIT Palakkad Technology I Hub Foundation (IPTIF)
Team: Smart AgriTech Centre for Advanced Research and Development (SATCARD)
Worked on “Cyber-Physical Systems in Collaboration with Artificial Intelligence for Smart Agriculture Improving Energy Efficiency and Environmental Safety”
06/2023-12/2023
- **Teaching Assistant** **Kharagpur**
Department of Civil Engineering, IIT Kharagpur
Courses: Engineering Drawing and Computer Graphics
07/2022-05/23

Training and Internships

- **Agriculture Development and Farmers' Welfare Department, Government of Kerala** **Trivandrum**
June 2021
- **KSCSTE – Centre for Water Resources Development and Management** **Kozhikode**
June 2021
- **Netafim** **Palakkad**
Micro-irrigation and water management April 2021
- **Groundwater Department, Government of Kerala** **Kollam**
April 2021
- **Southern Regional Farm Machinery Training and Testing Institute** **Anantapur**
March 2021

Publications and Conferences

1. A. CV, A. Pachore, R. Remesan. (2024). Agricultural drought response to meteorological drought over different agro-climatic zones of the Ganga River basin. *Journal of Water and Climate Change*. 15 (3), 998-1017
2. A. Pachore, A. CV, S. Khose, R. Remesan. (2023). Variable Response of Ecosystem Productivity towards Agricultural and Meteorological Drought over India. *Climate Change Impact on Water Resources. HYDRO 2023. Lecture Notes in Civil Engineering, vol 561. Springer, Singapore.*
3. A. Varughese, K. Praveena, P. Sruthakeerthi, V. Rachana, A. CV (2022). Runoff Prediction of Bharathapuzha River Basin using Artificial Neural Network and SWAT Model. *Journal of Agricultural Engineering* 59 (4), 404-416
4. Anjali C V, Akshay Pachore, Renji Remesan. (2022) Propagation dynamics of meteorological drought to agricultural drought using lag time analysis. *27th International Conference on Hydraulics, Water Resources, River and Coastal Engineering*

Awards and Honors

- **CHANAKYA Fellowship 2024** **Mumbai**
Awarded by the Technology Innovation Hub for carrying out doctoral research 2024
- **University of Helsinki- Best Environmental Sensing Project Award** **Palakkad**
Awarded for the design and development of a sustainable and automated irrigation system based on a Multi-depth Sensor Fusion Mechanism 12/2023
- **Best JAEI Research Paper Award** **Malappuram**
Awarded for the research article titled, Runoff Prediction of Bharathapuzha River Basin using Artificial Neural Network and SWAT Model' 05/2023

- **Ministry of Human Resources and Development Scholarship** **IIT Kharagpur**
The scholarship is awarded to competitively selected students to pursue master's at recognized research institutes in India 08/2021-05/2023
- **Graduate Aptitude Test in Engineering (GATE): Agricultural Engineering** **GATE (AG)**
Secured an All-India Rank of 199, resulting in an MHRD Scholarship 2021

References

Prof. Karthikeyan Lanka

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Prof. Jeffrey Walker

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