

FACULTY PROFILE



Dr. SHIJO JOSEPH

Assistant Professor

Course Coordinator (Environmental Science)

PhD (**Mahatma Gandhi University**)

Remote Sensing

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Dr. Shijo Joseph is currently heading the Climate Resilience and Environment Management Centre at the Kerala University of Fisheries and Ocean Studies, Kochi. He is a Member of the Governing Council (Syndicate) and Senate, representing teachers in the supreme authorities of the University. He worked as a Senior Scientist at the Kerala Forest Research Institute (KFRI), Thrissur before moving to his current position at KUFOS. He authored more than 60 research articles in international and national journals and holds editorial positions in leading scientific journals in the field of climate change and environmental sustainability. He also acts as an Expert Member in several international and national bodies including the Intergovernmental Panel on Climate Change (IPCC).

Dr. Joseph was trained in the premier institutes in India and abroad. This includes Mahatma Gandhi University, National Centre for Earth Science Studies (Trivandrum), Wildlife Institute of India (Dehradun), ISRO-National Remote Sensing Center (Hyderabad), ATREE (Bangalore) in India and the institutes in UK, Sweden, Poland and the Netherlands. He had received prestigious scholarships from European Union as well as from Cambridge University. He served the United Nations-affiliated office for five years, travelled to more than 30 countries, and conducted climate change studies in South America, Africa, and Southeast Asia. The Government of Kerala has awarded him the Best Environment Researcher of the State Award (2019) for his contribution to environmental and climate change research.

Teaching:

- Global Environmental Challenges and Environmental Education (4 credits)
- Environmental Remote Sensing and GIS (3 credits)
- Climate Change (3 credits)
- Disaster Risk Reduction and Management (4 credits)
- Digital Image Processing (4 credits)
- Satellite Meteorology, Agriculture and Forestry (4 credits)

Research Areas:

- Climate change and carbon neutral development
- Forestry, agroforestry and mangroves
- Environmental Remote Sensing and GIS
- Disaster Preparedness, Response and Mitigation

Key Management Roles:

- Member, Governing Council (Syndicate)
- Member, Senate
- Member and Criteria Head, IQAC
- Coordinator, Centre for Climate Resilience and Environment Management
- Course Coordinator, MSc Environmental Science

Publications:

- H-index – 23; Number of citations: > 2500 (as of September 2024); (Top Ten as follows).
<https://scholar.google.co.in/citations?user=a1GPu3cAAAAJ&hl=en>

- Sreelakshmi, M., Balachandran, S., Abdurazak, F., Gopinath, G., & Joseph, S. (2024). From perils to preparedness: Decoding coastal hazard risks on Kerala's central coast through the IPCC framework. *Natural Hazards*. 120, 8639–8666 (JCR Impact Factor: 3.7)
- Thekkeyil, A., George, A., Abdurazak, F., Kuriakose, G., Nameer, P. O., Abhilash, P. C., & Joseph, S. (2023). Land use change in rapidly developing economies—a case study on land use intensification and land fallowing in Kochi, Kerala, India. *Environmental Monitoring and Assessment*, 195(9), 1089. (JCR Impact Factor: 3.0)
- Gayathri, P. V., Rayaroth, M. P., Aravindakumar, C. T., Pillai, D., & Joseph, S. (2023). SUNLIGHT-INDUCED decontamination of water from emerging pharmaceutical pollutants using ZnO nanoparticles. *Chemosphere*, 343, 140265. (JCR Impact Factor: 8.8)
- Muscarella R et al (2020) Global Patterns of Palm Dominance. *Global Ecology and Biogeography*, 29 (9): 1495-1514). [IF-6.3 (SCI)]
- Slik, J.W.F., Franklin, J., [together with 185 authors] (2018) Phylogenetic classification of the world's tropical forests. *Proceedings of the National Academy of Sciences* 115, 1837-1842. [IF-9.58 (SCI)].
- DeVries, B., Decuyper, M., Zeileis, A., Herold, M., Joseph, S. (2015). Tracking disturbance-regrowth dynamics in tropical forests using structural change detection and Landsat time series. *Remote sensing of Environment* 169:320-334. [IF-11.1 (SCI)]
- Roy, P.S., Behera, M.D., Murthy, M.S.R., [together with 95 co-authors] (2015). New vegetation type map of India prepared using satellite remote sensing: Comparison with global vegetation maps and utilities. *International Journal of Applied Earth Observation and Geoinformation*, 39, 142-159. [IF-7.6 (SCI)].
- Krishnaswamy, J., John, R., Joseph, S., 2014. Consistent response of vegetation dynamics to recent climate change in tropical mountain regions. *Global Change Biology*, 20, 203-215. [IF-10.8 (SCI)]

- Joseph, S., Herold, M., Sunderlin, W.D., Verchot, L.V., 2013. REDD+ readiness: early insights on monitoring, reporting and verification systems of project developers. *Environmental Research Letters* 8, 034038. [IF-5.8 (SCI)].
- Anitha K, Joseph, S., R.J. Chandran, E. V. Ramasamy and S. N. Prasad. 2010. Tree species diversity and community composition in a human dominated tropical forest of Western Ghats biodiversity hotspot, India. *Ecological Complexity*, 7: 217-224. [IF-3.1 (SCI)]

Awards & Achievements:

- Environment Researcher Award of the State (2017) by Government of Kerala carrying a cash prize of INR 1,00,000/- and citation. Awarded on 5th June, 2019.

Ongoing Projects:

- Centre for Climate Resilience and Environment Management (Principal Investigator)

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