

CURRICULUM VITAE

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❖ ACADEMIC PROFILE

School, college and/or University	Degree/certificate or other specialized education	Year
National Institute of Technology, Tiruchirappalli, Tamilnadu, India	Ph.D. in Water Resources and Environmental Engineering	2022
Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India	M.Tech in Environmental Engineering	2017
Government Engineering College, Raipur, Chhattisgarh, India	B.E. in Civil Engineering	2015

WORK EXPERIENCE

Designation	Organization	Nature of work	Period
Assistant Professor in Civil Engineering	Malaviya National Institute of Technology, Jaipur, India	Teaching	10.01.24 - Till date

❖ Ph. D. THESIS

Title of Thesis: Impact of climate change and landuse/landcover on Indian Rivers using hydrological model

Research Guide: **Dr. S. Saravanan**, Associate Professor, Department of Civil Engineering, NIT Tiruchirappalli, India

❖ M.Tech THESIS

Title of Thesis: Time series analysis of climate parameters in conjunction with NDVI using remote sensing and GIS techniques

Research Guide: **Dr. Y.B. Katpatal**, Professor, Department of Civil Engineering, VNIT Nagpur, India

❖ AREAS OF RESEARCH INTEREST

- Remote sensing and GIS Applications on Water resource and Environment Engineering, Flood, Soil erosion
- Remote sensing and GIS Applications on Water Resources Management
- Catchment water balance modeling, land use/land cover mapping, and Neural Networks applications on water resources.

❖ AWARDS/ FELLOWSHIPS RECEIVED

- “*Online Support of the Year*” contribution to the SWAT model at the 2018 International SWAT Conferences, Belgium

❖ WORKSHOP/TRAINING PROGRAMMES/SHORT TERM COURSE/ATTENDED

- “Water Treatment Plant Design” Technical Workshop by iNODE
- “Technical Writing in research and funding opportunists” under National Education Policy (NEP) 2020 Organized by National Institute of Technology, Manipur
- “Advance Image Analysis” course funded by the Indian Space Research Organization, 2018

❖ INTERNATIONAL VISITS

1. To attend 6th International SWAT Conference at Siem Reap, Cambodia in Oct 21-26, 2019
2. To attend The 2018 International SWAT Conference at IIT Madras in Chennai, India January 8-12, 2018

❖ PUBLICATION

International and National Journal

1. Saravanan, S., Singh, L., Sathiyamurthi, S. et al. Predicting phosphorus and nitrate loads by using SWAT model in Vamanapuram River Basin, Kerala, India. *Environ Monit Assess* 195, 186 (2023). <https://doi.org/10.1007/s10661-022-10786-2>.
2. Singh, L., & Saravanan, S. (2022). Evaluation of Blue and green water using combine stream flow and soil moisture simulation in Wunna watershed, India. *Water Conserv Sci Eng* (2022). <https://doi.org/10.1007/s41101-022-00138-z>.
3. Singh, L., & Saravanan, S. (2022). Assessing streamflow modeling using single and multi-site calibration approach on Bharathpuzha catchment, India: a case study. *Modeling Earth Systems and Environment*, 8, 4135–4148. <https://doi.org/10.1007/s40808-022-01353-2>.
4. Singh, L., & Saravanan, S. (2022). Adaptation of satellite-based precipitation product to study runoff and sediment of Indian River watersheds. *Arabian Journal of Geosciences*, 15(4), 1-21.
5. Singh, L., Saravanan, S., Jennifer, J. J., & Abijith, D. (2021). Application of multi-influence factor (MIF) technique for the identification of suitable sites for urban settlement in Tiruchirappalli City, Tamil Nadu, India. *Asia-Pacific Journal of Regional Science*, 5(3), 797-823.
6. Tankpa, V., Wang, L., Awotwi, A., Singh, L., Thapa, S., Atanga, R. A., & Guo, X. (2021). Modeling the effects of historical and future land use/land cover change dynamics on the hydrological response of Ashi watershed, northeastern China. *Environment, Development and Sustainability*, 23(5), 7883-7912.
7. Saravanan, S., Jennifer, J. J., Singh, L., Thiyagarajan, S., & Sankaralingam, S. (2021). Impact of land-use change on soil erosion in the Coonoor Watershed, Nilgiris Mountain Range, Tamil Nadu, India. *Arabian Journal of Geosciences*, 14(5), 1-15.

8. Saravanan, S., Saranya, T., Abijith, D., Jacinth, J. J., & Singh, L. (2021). Delineation of groundwater potential zones for Arkavathi sub-watershed, Karnataka, India using remote sensing and GIS. *Environmental Challenges*, 5, 100380.
9. Singh, L., & Saravanan, S. (2020). Impact of climate change on hydrology components using CORDEX South Asia climate model in Wunna, Bharathpuzha, and Mahanadi, India. *Environmental Monitoring and Assessment*, 192(11), 1-21.
10. Singh, L., & Saravanan, S. (2020). Evaluation of various spatial rainfall datasets for streamflow simulation using SWAT model of Wunna basin, India. *International Journal of River Basin Management*, 20:3, 389-398.
11. Singh, L., & Saravanan, S. (2020). Satellite-derived GRACE groundwater storage variation in complex aquifer system in India. *Sustainable Water Resources Management*, 6(43), 1-15.
12. Singh, L., & Saravanan, S. (2020). Simulation of monthly streamflow using the SWAT model of the Ib River watershed, India. *HydroResearch*, 3, 95-105.
13. Abijith, D., Saravanan, S., Singh, L., Jennifer, J. J., Saranya, T., & Parthasarathy, K. S. S. (2020). GIS-based multi-criteria analysis for identification of potential groundwater recharge zones-a case study from Ponnaniyaru watershed, Tamil Nadu, India. *HydroResearch*, 3, 1-14.
14. Singh, L., & Katpatal, Y. B. (2018). Wetland change analysis and their impact on dense vegetation by spatial approach. *Journal of Urban and Environmental Engineering*, 12(1), 70-76.

Conference Proceeding

1. Reddy, N.M., Saravanan, S., Singh, L., Abijith, D. (2023). Comparative Analysis of TANK and SimHyd Rainfall-Runoff Models in the Hemavathi Watershed, Cauvery Basin, India. In: Pal, I., Kolathayar, S., Tawhidul Islam, S., Mukhopadhyay, A., Ahmed, I. (eds) Proceedings of the 2nd International Symposium on Disaster Resilience and Sustainable Development. Lecture Notes in Civil Engineering, vol 294. Springer, Singapore. https://doi.org/10.1007/978-981-19-6297-4_7
2. Singh, L., Subbarayan, S., Jacinth Jennifer, J., Abhijith, D., & Sankriti, R. (2022). Assessment of Impact of Spatial Distribution of Rainfall on Streamflow Modelling Using Arcswat in the Noyyal River Catchment Tamil Nadu, India. In *Hydrological Modeling* (pp. 517-526). Springer, Cham.
3. Sankriti, R., Subbarayan, S., Aluru, M., Singh, L., & Abijith, D. (2022). Assessment of Agricultural Drought Vulnerability Using Remote Sensing and GIS: A Case Study of Lower Cauvery Basin, Tamil Nadu, India. In *Hydrological Modeling* (pp. 505-515). Springer, Cham.

Book Chapter

1. Saranya, T., Saravanan, S., Jennifer, J. J., & Singh, L. (2021). Assessment of groundwater vulnerability in highly industrialized Noyyal basin using AHP-DRASTIC and Geographic Information System. In *Disaster Resilience and Sustainability* (pp. 151-170). Elsevier.
2. Sankriti, R., Saravanan, S., Aluru, M., Singh, L., Jennifer, J. J., & Abijith, D. (2021). Identification of drought intensity and development of drought resilience in the Rayalaseema region of Andhra Pradesh, India. In *Disaster Resilience and Sustainability* (pp. 357-377). Elsevier.

❖ MEMBERSHIP IN PROFESSIONAL BODIES

- The International Association for Hydro-Environment Engineering and Research (IAHR)
- The Institute of Engineers (India): AM1916834
- The Indian Water Association

❖ **JOURNAL REVIEWER**

(Reviewed many international journal in the field of environmental and water resource engineering)

- Environmental Challenge
- Environmental Monitoring and Assessment
- International Journal of Climatology
- Sustainable Water Resources Management
- Water Resources Management
- Frontiers in Environmental Science

❖ **EXPERIENCE**

- Perform hydrologic analyses using modeling
- Writing and reviewing technical reports

CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe my qualifications, my experience.



(LEELAMBAR SINGH)