

Name	Dr. S. Dharumarajan					
Date of birth	15/06/1981					
Designation	Principal Scientist and Head (Acting)					
Qualification	M.Sc (Ag.), Ph.D (IARI), PDF (Univ. Sydney)					
Email id	Dharumarajan.S@icar.org.in sdharmag@gmail.com					
Educational Qualifications						
S.No	Degree	Year	Subject	University/Institution	% of marks	
1.	B.Sc (Ag.)	2003	Agriculture	Tamil Nadu Agricultural University	87.7	
2.	M.Sc (Ag.)	2006	Soil Science and Agricultural chemistry	Tamil Nadu Agricultural University	87.4	
3.	Ph.D	2009	Agricultural Chemicals	Indian Agricultural Research Institute	80.6	
4	Post Doctorate	2016	Desertification modelling	The University of Sydney, Australia	-	
Professional Experience						
17 years of experience and expertise in the field of land resource inventorisation, land degradation assessment and digital soil resource mapping						
Research Areas						
1. Application of remote sensing and GIS in Natural Resource management						
2. Land resource characterisation						
3. Digital soil mapping, Spectroscopy and machine learning in soil science						
4. Desertification/land degradation vulnerability assessment						
International Experience						
S.No	Country	Place and duration			Purpose	
1	Australia	The University of Sydney, Sydney (Mar-Oct 2016)			Post doc programme under Endeavour Research Fellowship	
2	France	Le LISAH, (INRA), Montpellier (Oct-Dec 2017)			Digital soil mapping training	
3	Chile	The University of Chile,Santiago, Chile (Mar 2019)			Invited speaker in Joint workshop on digital soil mapping and GlobalSoilMap	
4	France	Le LISAH, Montpellier (Nov 2019)			Attending annual review meeting of ATCHA project	
5	United Kingdom	James Hutton Institute, Aberdeen (Sep 2022)			To get advanced training in digital soil mapping and interact with scientists of the Institute	
6	France	Orléans (Feb 2023)			Invited speaker in 2 nd Joint workshop on digital soil mapping and GlobalSoilMap	
Awards						
S. No	Name of Award			Awarding Agency		Year
1	IASWC Young Scientist Award			Indian Association of Soil and Water Conservationists, Dehradun		2021
2	ISSLUP Young Scientist award			Indian Society of Soil Survey and Land Use Planning (ISSLUP), Nagpur		2020
3	Outstanding Scientist Award (Foundation day awards)			ICAR- NBSS&LUP Nagpur		2018

4	Endeavour Research fellowship	Department of Education and Training, Govt. of Australia	2016
5	Outstanding Young Scientist Award (Foundation day awards)	ICAR- NBSS&LUP Nagpur	2016
6	Best poster and paper awards (8 awards)	ISSLUP, ISSS, IASWC and international conferences	
7	National Geospatial Professional Fellow Award	by IIT Bombay	2025
Honours/Recognitions			
1. Associate Editor- European Journal of Soil Science			
2. Editorial Board – Geoderma Regional			
Recent publications indexed Web of Science			
1.	Dharumarajan, S.*, Gomez, C., Kusuma, C.G., Vasundhara, R., Kalaiselvi, B., Lalitha, M., Hegde, R. Prediction of soil organic carbon stock along layers and profiles using Vis-NIR laboratory spectroscopy. <i>Catena</i> . 2025; 257:109150. DOI: https://doi.org/10.1016/j.catena.2025.109150 . Impact Factor: 6.3.		
2.	Demattê, J.A.M., Poppiel, R.R., Novais, J.J.M., Rosin, N.A., Minasny, B., Savin, I.Y., Grunwald, S., Chen, S., Hong, Y., Huang, J., Chabrilat, S., de Jong van Lier, Q., Bendor, E., Gomez, C., Ganlin, Z., Accorsi Amorim, M.T., Vogel, L.G., Fim Rosas, J.T., Milewski, R., Gholizadeh, A., Zhogolev, A.V., Campusano, J.P., Ma, Y., Jang, H.J., Rudiyanto, Wang, C., Rizzo, R., Tziolas, N., Tsakiridis, N., Kodaira, M., Kumar, D.N., Dharumarajan, S et al., A. Frontiers in earth observation for global soil properties assessment linked to environmental and socio-economic factors. <i>The Innovation</i> . 2025; 6:100985. DOI: https://doi.org/10.1016/j.xinn.2025.100985 . Impact Factor: 40.2.		
3.	Kusuma, C.G., Dharumarajan, S.*, Vasundhara, R., Gomez, C., Manjunatha, M.H., Hegde, R. Predicting Soil Nutrient Classes Using Vis-NIR Spectroscopy to Support Sustainable Farming Decisions. <i>Land Degradation & Development</i> . 2025; 36:1–15. DOI: https://doi.org/10.1002/ldr.70007 . Impact Factor: 4.4.		
4.	Dharumarajan, S.*, Adhikari, K., Chakraborty, R. Prediction and mapping of soil organic carbon stock via large datasets coupled with pedotransfer functions. <i>Earth Science Informatics</i> . 2025; 18:314. DOI: https://doi.org/10.1007/s12145-025-01822-z . Impact Factor: 3.1.		
5.	Lagacherie, P., Dharumarajan, S. Mapping soil property classes over a large territory with multiple soilscapes by digital extrapolations of legacy detailed soil maps: A case study in Karnataka-South India. <i>Geoderma</i> . 2026; 467:117743. DOI: https://doi.org/10.1016/j.geoderma.2026.117743 . Impact Factor: 7.3.		
6.	Gaab, J., Ruiz, L., Sekhar, M., Dharumarajan, S., Tutondele, J.M., Okoto, M.E., Gomez, C. Detection of short-term changes in soil clay content at field scale with Sentinel-2 enables mapping of reservoir sediment reuse in cropland. <i>Geoderma</i> . 2025; 464:117630. DOI: https://doi.org/10.1016/j.geoderma.2025.117630 . Impact Factor: 7.3.		
7.	Lagacherie, P., Dharumarajan, S., Vasundhara, R. Using farmers' knowledge on soils improves local digital soil mapping products: A case study in South India. <i>Geoderma</i> . 2025; 464:117609. DOI: https://doi.org/10.1016/j.geoderma.2025.117609 . Impact Factor: 7.3.		
8.	Gomez, C., Amelin, J., Coulouma, G., Gaab, J., Dharumarajan, S., Riotte, J., Sekhar, M., Ruiz, L. Reuse of bottom sediment from reservoirs to cropland is a promising agroecological practice that must be rationalized. <i>Scientific Reports</i> . 2025; 15:7523. DOI: https://doi.org/10.1038/s41598-025-92206-2 . Impact Factor: 4.3.		
9.	Dharumarajan, S.*, Gomez, C., Lalitha, M., Vasundhara, R., Hegde, R., Patil, N.G. Assessing the utility of Munsell soil color in building and evaluating spectral models for soil clay content prediction. <i>Soil Science Society of America Journal</i> . 2024; 88:1–14. DOI: https://doi.org/10.1002/saj2.20692 . Impact Factor: 3.0.		
10.	Dharumarajan, S.*, Vasundhara, R., Kalaiselvi, B., Lalitha, M., Rameshan, M., Srinivasan, R., Karthika, K.S., Sweta, K., Anil Kumar, K.S., Hegde, R. Quantification and mapping of the carbon sequestration potential of soils via a quantile regression forest model. <i>Earth Science Informatics</i> . 2024. DOI: https://doi.org/10.1007/s12145-024-01298-3 . Impact Factor: 3.0		

Total Publications (Peer-reviewed journals only)

International: 54, National: 51

Google Scholar link: <https://scholar.google.co.in/citations?user=zYpMxIQAAAAJ&hl=en>

Research Gate link: <https://www.researchgate.net/profile/Dharumarajan-S>