

CIRRICULUM VITAE



Dr. D. Surendran

Assistant Professor

Department of Geography

School of Earth Sciences

Central University of Tamil Nadu, Thiruvarur, Tamil Nadu

Email: surendran@cutn.ac.in, surendran@acad.cutn.ac.in, surendran.phd@gmail.com

Website: <https://cutn.ac.in/department-of-geography/> Mobile: +91 7708877846

Education

October 2017	Ph.D. in Geography, Department of Geography, University of Madras. Title of the Thesis: Mapping and Ecological Modelling of Mangrove Ecosystem for Sustainable Development: A Case Study of Pichavaram, Tamil Nadu, India
2016	SET in Geography
2014	UGC-NET in Geography
2007	M.Sc. in Geography, University of Madras, Chennai.
2004	B.Sc. in Information Technology, Arulmigu Palaniandavar College of Arts and Culture, Palani, Madurai Kamaraj University.
2001	H.S.C in Municipal Boys Higher Secondary School, Palani
1999	S.S.L.C in Municipal Boys Higher Secondary School, Palani

Academic and Research Experience

Academic Year Aug 2024 – Till Date	Assistant Professor, Department of Geography, School of Earth Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu
Academic Year 2022 – Aug 2024	Assistant Professor and Head, Department of Defence and Strategic Studies, FSH, SRM Institute of Science and Technology Handling Courses: Military Geography, Geopolitics, Cartography, Political Geography, GIS and Project Management.
Academic Year 2017 – 2022	Guest Lecturer , Department of Geography, University of Madras Handled Courses for <i>M.Tech. Geoinformatics</i> & <i>M.Sc. Applied Geography</i> Theory Courses: Geographic Information System (GIS) & Geovisualization, Geostatistics, Digital Cartography, Political Geography, Spatial Data Modelling and Programming, Big Data Analytics, GIS Project Planning, Principles of Spatial Database Design, RADAR Remote Sensing, and Mobile Mapping & Location Based Services (LBS) Practical Courses: Geographic Information System (GIS) Lab, Spatial Data Analysis and Management, Spatial Analysis & WebGIS, Techniques of Mapping and Map analysis.
Academic Year 2016 – 2017	Teaching cum Research Fellow (TRF), Department of Geography, University of Madras
November 2011 – August 2016	Project Fellow, University Grants Commission - Centre with Potential for Excellence in Particular Area (UGC-CPEPA), Project entitled “ <i>Climate Change and its impact on Mangrove Ecosystems in the Region Mapping of Mangrove Ecosystems along Tamil Nadu Coast for Sustainable Development Planning: A Geo informatics Approach</i> ”
June 2011 – March 2012	Research Assistant in Madras Institute of development of Studies (MIDS), funded by Department of Science and Technology (DST), Government of India, project entitled “Sustaining the Ecology of Chennai and Its Peri-Urban Area: A Long-Term Strategy Document for Water Conservation”

Publications

Surendran D and Jaganathan R (2013), "Assessment of Land Use and Land Cover Change for Sustainable Development: A Case Study of Pichavaram Mangrove Ecosystem, Tamil Nadu, India, The Indian Geographical Journal", Vol.88 No.1. pp.no 47-59

Jaganathan R, **Surendran D**, Shridevi A K, Annaidasan K (2013), "Feasible Business Site - Location Analysis in Triplicane Zone using Gravity Model", Indian Cartographer, Vol. 33.

Jaganathan R, Annaidasan K, **Surendran D**, Balakrishnan P (2015), "Morphometric analysis and prioritization of watersheds in Mulliyar River Basin of South India", Environmental Management of River Basin Ecosystem, Springer Publication.

Usha N., Jaganathan R., Stephen Jayaseelan and **Surendran D** (2020), "The Changing Approach Towards Development Planning - A Case Study of Chennai Metropolitan Area, Tamil Nadu", The Indian Geographical Journal, Vol.95 No.2. pp.no 255-265.

S. Sivasankar, R. Jaganathan, M. S. Raghav, **D. Surendran**, N. Manikandan, and P.Raju (2023), "Mobility Patterns of Criminals in Chennai City, India: A Spatial Analysis", Population Geography, Vol.45, No.2, pp.no 85-98, ISSN 0256-5331

Dharshan Shylesh D S, Manikandan N, Sivasankar S, **Surendran D**, Jaganathan R & Mohan G (2023), "Influence of quantity, quality, horizontal and vertical distribution of ground control points on the positional accuracy of UAV survey", Applied Geomatics, Volume 15, pages 897–917, <https://doi.org/10.1007/s12518-023-00531-w>.

Training Programmes and Workshops

December 2023	Face-to-Face Faculty Development Program - "Universal Human Values II" organized by All India Council for Technical Education (AICTE) at S.R.M. Institute of Science and Technology, Kattankulathur Campus, Chennai.
October 2023	Face-to-Face Management Development Program - "Universal Human Values and Professional Ethics" organized by All India Council for Technical Education (AICTE) at S.R.M. Institute of Science and Technology, Kattankulathur Campus, Chennai.
December 2021	Faculty Development Programme (FDP) – " Data Analysis Using Python ", Jointly organized by All India Council for Technical Education (AICTE) Training and Learning (ATAL) Academy and IPS Academy, Institute of Engineering and Science.
December 2021	Faculty Development Programme (FDP) – " Advance Data Science and its Applications ", Jointly organized by All India Council for Technical Education (AICTE) Training and Learning (ATAL) Academy and Central University of Tamil Nadu.
April 2020	Summer School / Refresher Course - " Level 2: Coastal and Vulnerability Assessment using Geospatial Technologies ", NRDMS-DST and IIT-Madras , Department of Ocean Engineering, IIT Madras
November 2016	Professional Development Workshop on "Geospatial Modelling and Simulation", jointly with University of Salzburg & York University organized by the Department of Geography, University of Madras.
July 2016	NPTEL Workshop conducted by Indian Institute of Technology (IIT-Madras)
March 2015	National workshop on " Data Visualization and its Business Application ", the Department of Management Studies, University of Madras
March 2015	Off-Campus Outreach Certificate Program Sponsored by National Natural Resources Management System (NNRMS) " Application of Remote Sensing & GIS for Natural Resources " conducted by Indian Institute of Remote Sensing, Indian Space Research Organization, Department of Space, Government of India.
November 2014	Off-Campus Outreach Certificate Program Sponsored by National Natural Resources Management System (NNRMS) " Remote Sensing, Geographical Information Systems and Global Navigation Satellite System " conducted by Indian Institute of

	Remote Sensing, Indian Space Research Organization, Department of Space, Government of India.
July 2013	Workshop on “ Structural Equation Modelling ”, organized by the Department of Commerce, University of Madras.
March 2012	International Workshop on “Environment & Waste Management: Problems & Issues” jointly organized by University of Madras and the University of Northampton , United Kingdom (U.K) in collaboration with UKIERI at University of Madras.
February 2012	Eurasia-Pacific UNINET Faculty Development Workshop , “Impact of Climate Change on Mountain Environments”, College of Natural Resources, Royal University of Bhutan, Lobesa, Bhutan.
November 2011	International Workshop on: “ oikos Future Lab: Sustainability ”, University of St.Gallen, Switzerland.
May 2011	Workshop on “Opensource Geospatial Tools”, CISTUP, Indian Institute of Science (IISc) , Bangalore.
March 2011	Workshop - BHUVAN (Gateway to Indian Earth Observation), Science City, Chennai
February 2011	Faculty development workshop on “ GIS for College Level Geography Teachers ” University of Madras.
January 2011	International workshop on “Climate Change, Regional Air Pollution and Green House Mitigation”, CEPT University, Ahmedabad.

Seminar/Conferences Orgnaized, Resource Person & Special Lectures

November 2023	Chairperson for the Paper Presentation session on the “SDG-10: Reduced Inequality”, organized by the Faculty of Science and Humanities at SRM Institute of Science & Technology, Kattankulathur.
January 2023	Organised a National Seminar on “ Futuristic Security Challenges for Indian Armed Forces ”, Department of Defence and Strategic Studies, College of Science and Technology, SRM Institute of Science and Technology, Kattankulathur Campus
October 2022	Orgnaized a Webinar on “ Emerging Tech in Modern Military ”, Department of Defence and Strategic Studies, College of Science and Technology, SRM Institute of Science and Technology, Kattankulathur Campus
March 2022	Resource Person in Green Skill Development Programme (GSDP) Certificate Course on “ Wildlife Management using Geospatial Techniques ”, jointly organized by Department of Geography, University of Madras & Department of Environment, Government of Tamil Nadu, sponsored by Ministry of Environment, Forest and Climate Change, Government of India.
December 2021	Resource Person in ICSSR – Two Week Capacity Building Programme on Geospatial Applications in Environmental Studies , Department of Geography, University of Madras.
August 2021	Resource Person in ATAL Sponsored Faculty Development Programme (FDP) on “ Artificial Intelligence and Geospatial Technology in surveillance for Infectious Diseases”, KCG College of Technology, Chennai.
November 2017	Delivered a special lecture in AICTE Sponsored Faculty Development Program on “Integrating Geographical Information Systems (GIS) into E-Health and Telecommunication”, KCG College of Technology, Chennai-97
May 2017	Resource Person in UGC-Sponsored National Workshop on Geographic Information Systems for Sports Studies, Department of Physical Education, University of Madras
March 2017	Delivered a special lecture in Indian Space Research Organization (ISRO) Sponsored Workshop on Integrating GIS into E-Health initiatives in India, KCG College of Technology, Chennai-97
January 2012	Resource Person in State Level workshop for Social Science Teachers at Rajiv Gandhi National Institute of Youth Development, Rashtriya Madhyamik Shiksha Abhiyan (RMSA), Government of India

Paper Presentations

September 2020	Presented paper on “Spatial Planning and Modelling of COVID-19 Pandemic in Tamil Nadu: A Geo-Ecological Approach” at International Webinar on “COVID-19 Pandemic: A Geo-Ecological Perspective”, Foundation of Practising Geographers, Kolkata.
February 2018	Presented paper on “Site Suitability Modelling for House Hunting in Sholinganallur, Chennai” at International Conference on “Urban Agriculture – Land Food, People, Agriculture and City: A Geospatial Perspective”, Department of Geography, University of Madras
November 2017	Presented paper on “A GIS model for predicting rainfall runoff and flood prone areas” in Sixth International Conference on “Climate Change and Sustainable Water Resource Management- Innovative Geospatial Solutions”, Department of Geography and Geoinformatics, Bangalore University, Bangalore
November 2016	Presented paper on “Ecological Modelling for predicting future distribution of mangrove ecosystem: A case study of Punnaiyakal Environs, Tuticorin, Tamil Nadu, India” at Fifth International Conference on “Geospatial Technologies for Urban, Forest and Climate Change – Pathway to Sustainable Development”, Department of Geography, Bangalore University
February 2016	Presented paper on “Support of Opensource Geospatial tools for GIS Web Mapping and Spatial Analysis” at UGC Sponsored Fourth International Conference on “Remote Sensing and GIS Applications on Coastal Management”, Department of Geography, University College, Mangalore
February 2017	Presented paper on “Feasible business site location analysis using Gravity Model: A study of Theynampet Zone, Chennai, TN” at 5 th International Conference on “Future Earth Perspectives in South Asia”, Department of Geography, Bharathidasan University, Tiruchirappalli
July 2015	Presented paper on “Ecological Mapping and Modelling of Mangrove System using Cellular Automata Markov Chain: A Study of Pichavaram, Tamil Nadu, India” at International Conference on “Mangroves and Climate Change”, School of Earth and Atmospheric Sciences, University of Madras, Chennai
September 2013	Presented paper on “Site Suitability Analysis for Business Location: A Case of Triplicane Zone, Chennai using Gravity Model” at XXXIII International Congress on “Integrated Decentralized Planning: Geospatial Thinking, ICT and Good Governance”, Indian National Cartographic Association, Hosted by National Remote Sensing Centre (NRSC), ISRO, Jodhpur and Central Arid Zone Research Institute (CAZRI), ICAR, Jodhpur
December 2015	Presented paper on “Recent Developments in the use of Open-Source Tools for Geography Research”, at National Conference on “Application of Remote Sensing, GIS and GPS Technologies”, Department of Geography, School of Earth and Atmospheric Sciences, Madurai Kamaraj University, Madurai
December 2015	Presented paper on “Estimating the Spatial Extent of Coastal Mangrove Ecosystem using CA-Markov Chain Model: A Case Study of Pichavaram, Tamil Nadu, India” at National Conference on “Application of Remote Sensing, GIS and GPS Technologies”, Department of Geography, School of Earth and Atmospheric Sciences, Madurai Kamaraj University, Madurai.
December 2014	Presented paper on “Geo Statistical modelling of Rainfall Distribution in Tamil Nadu, India” at National Seminar on “Climate Change and Environment Sustainability”, Department of Geography, Bharathi Women’s College, Chennai
November 2014	Presented paper on “Support of Open-Source Tools for Geographical Research: Some Observations and Recent Developments in the use of Research Tools” at 36 th Indian Geography Congress on “Urban Systems, Rural Livelihoods Security and Resource Management”, University of Rajasthan, Jaipur
December 2013	Presented paper on “An Analysis of Business Locations in a Micro Urban Area and Its Relevance to Hotelling and Reilly: A Case Study of Departmental Stores in Triplicane Zone, Chennai” at 35 th Indian Geography Congress on “Sustainability, Environment and Society”, Department of Geography, University of Madras
March 2013	Presented paper on “GIS Based Morphometric Analysis of Periyar Watershed, Whestern Ghats, India”, at National Seminar on “Geoinformatics in Land and Water Resources Studies”, Department of Geography, School of Geosciences, Bharathidasan University, Thiruchirappalli

Visits Abroad and Skills

International Visits	Switzerland (2011), Bhutan (2012)
Subject Skills	Cartography, Military Geography, Geopolitics, Climatology, Oceanography, Geostatistics, Strategic Geography, Spatial Database, Geomorphology, Indian Geography, Settlement and Population Geography, Political Geography.
Software	QGIS, SNAP, SAGA, gvSIG, Google Earth Engine, ArcGIS, ERDAS, TerrSet, Geoserver
Programming languages	Python, R Programming, Java Script, HTML, CSS, VB
Database	PostgreSQL, PostGIS, SQL
Operating system	Windows & Ubuntu

Projects

Title of the Project	Assessment of Diffusion of Waste Management Awareness with a Specific Focus on the Swachh Bharat Abhiyan Scheme in Greater Chennai: A Geospatial Approach
Funding Agency	ICSSR
Role	Project Director
Duration	6 Months
Sanctioned Amount	15,00,000/-

Patents

Patent Title	System and Method for Measurements on a 3D Real-World Reconstructed Model in an Immersive Virtual Environment (Geospatial Technology & Immersive Virtual Reality)
Application No	202341084018
Date	08/12/2023
Status	Filed
Patent Title	System and Method for Creating and Editing Three-Dimensional Spatial Vector Data in Virtual Reality Environment
Application No	202341073610
Date	28/10/2023
Status	Published

Memberships

Life Member	Indian Society of Geomatics (ISG), 2023
Life Member	Indian Society of Remote Sensing (ISRS), 2023
Life Member	The Indian Geographical Society (IGS), 2012
Life Member	Indian Meteorological Society (IMS), 2024
Life Member	Indian Cartographic Association (INCA), 2024
