

Dr. R. Jegankumar M.Sc., M.Tech., Ph.D.,**Professor and Head**

Department of Geography

School of Earth Sciences

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<https://www.scopus.com/authid/detail.uri?authorId=56539984800><https://vidwan.inflibnet.ac.in/profile/65883><https://orcid.org/0000-0003-2333-3898>https://www.researchgate.net/profile/Jegankumar_Rajagopal**Academic Qualification**

Degree	University	Subject	Marks
B.Sc.,(1993)	Government Arts College Salem Affiliated to University of Madras	Geography	60.3%
M.Sc (1998)	Bharathidasan University, Tiruchirappalli	Applied Geography	74.4%
SLET (1998)	Bharathidasan University, Tiruchirappalli	Geography	Qualified
M.Tech (2000)	College of Engineering, Anna University	Remote Sensing	7.14/10 (CGPA)
Ph.D., (2017)	Bharathiar University, Coimbatore	Geography	Awarded

Teaching Experience: 18 Years

- ❖ Lecturer, Department of Geography, Government Arts College (Autonomous) Coimbatore (28.08.2000 to 30.06.2006)
- ❖ Assistant Professor in Department of Geography, Bharathidasan University, Tiruchirappalli (03.07.2006 – 04.09.2017)
- ❖ Associate Professor in Department of Geography, Bharathidasan University, Tiruchirappalli (05.09.2017 -05.09.2020)
- ❖ Professor in Geography, Department of Geography, Bharathidasan University, Tiruchirappalli (06.09.2020 Onwards)

Research Experience: 8 Years

- ❖ Co-ordinator - UGC SAP-DRS II from 1st July 2016 to 31.03.2020
- ❖ Departmental Research Member in UGC SAP-DRS I July 2009 – March 2014

Additional Responsibilities

- ❖ Head of the Department (01.07.2016 Onwards)
- ❖ Co-ordinator for UGC-DRS SAP II (JULY2016)
- ❖ Co-ordinator in-charge for CGIT, Bharathidasan University (SEP 2016)
- ❖ Co-ordinator in-charge IIRS/ISRO Edusat Program, Bharathidasan University

Areas of Research

Geoinformatics: Mapping & Modelling of Spatial Elements, Health and Well Being, Agroclimatology, Geo-Archaeology

Research Supervision / Guidance

Program of Study	Completed	Ongoing
Ph.D.	Xx	06
M.Phil.	05	05
PG (M.Tech)	75	02
PG (M.Sc)	25	10

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
15	2	1	2	13

	Total Citations	H index	i10 index
Google Scholar	139	6	5
Scopus	34	4	
Researchgate	142		

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

1. **Coordinator** for Refresher Course "Earth Sciences" Human Resource Development Centre, Bharathidasan University, Tiruchirappalli
2. **Coordinator** in *Five Day National Level Workshop on Digital Photogrammetry and High Resolution Remote Sensing Applications*, March 16-20, 2009. Department of Geography, Bharathidasan University, Tiruchirappalli
3. **Co-coordinator**, in *National Seminar on Application of Geomatics in Climatology* Department of Geography, Bharathidasan University, Tiruchirappalli , March 23-25, 2009
4. *National Workshop on Advanced GPS Surveying (WAGS)*, Department of Geography, Bharathidasan University, Tiruchirappalli, 03 – 4 Feb, 2012.
(**Coordinators: R. Jegankumar & K. Balasubramani**)
5. **Co- Coordinator** in *Three day National Workshop on Photogrammetry: Principles and Applications* Department of Geography, School of Geosciences, Bharathidasan University, Tiruchirappalli, January 23 -25, 2014
6. 5th *NAGI International Conference on Future Earth Perspectives in South Asia*, Department of Geography, Bharathidasan University, Tiruchirappalli , February, 5 – 7, 2016
(**Organizing Secretary**)

7. **Coordinator** in *National Workshop on Advanced GPS Surveying Techniques (WAGST)*, Department of Geography, Bharathidasan University, Tiruchirappalli, 04 – 5 March, 2016
8. **Coordinator** in *Geoinformatics in Natural Seminar on Geoinformatics for Natural Resources Evaluation*, Department of Geography, Bharathidasan University, Tiruchirappalli, 30-31, March, 2017
9. **Coordinator** *Natural Seminar Geoinformatics in Natural Resources for Sustainable Development*, Department of Geography, Bharathidasan University, Tiruchirappalli, 26-27, March, 2018
10. **Coordinator** *Workshop on GIS Modelling*, Department of Geography, Bharathidasan University, Tiruchirappalli, 12-16, March, 2018
11. **Coordinator** *UGC Sponsored Refresher Course on Geosciences*, HRDC, Bharathidasan University, Tiruchirappalli, 15th Nov to 6th Dec, 2018

Events Participated

Conferences / Seminars / Workshops:

1. Intensive **Refresher Course** for College Teachers, Conducted by Directorate of Collegiate Education, Government of Tamil Nadu, organized by Nirmala College for Women. 22 – 26 November 2004
2. Participated and Presented in the “**Perspectives of the Universe A Global conference on Cosmologies**” National Institute of Advanced Studies (NIAS), IISc, Bengaluru, 2-4 December, 2010.
3. Participated and Presented on “**A Study of Weekly Analysis of Rainfall for Crop Planning: A case study of Attur Taluk, Salem District, Tamil Nadu**”, Organized by Department of Geography School of Geosciences, Bharathidasan University, Tiruchirappalli during 3-4 March, 2012
4. Participated and Presented a paper on “**Assessment of Groundwater Potential Zones Using Geospatial Technology- A Case Study of Swatha Nadi Basin, Tamil Nadu**”, International Geographical Union (IGU) on Geoinformatics for Biodiversity and Climate Change, Department of Geography, Maharshi Dayanand University of Rohtak, Haryana, 14-16, March, 2013.
5. Participated 8th International congress on Climate change, Territorial classification and socioeconomic crises, April, 2013 Bharathidasan University and IPN Mexico, at SRM Hotel, Trichy, India
6. Participated and Presented a paper on “**Geoinformatics in Land Surface Temperature Analysis, A Case Study of Tiruchirappalli City, Tamil Nadu**”, International Conference on Climate Change: Present Concerns, Department of Geography, Andhra University, Vishakhapatnam, Andhra Pradesh, 23-24, June, 2013
7. Participated and Presented a paper on “**Agricultural Land Suitability Analysis – A Case Study of Omalur Taluk, Salem**”, Tamil Nadu, 36th Indian Geographical Congress, Department of Geography, University of Rajasthan, 17-19, November, 2014.
8. Participated and presented a paper on “**Physical Land Suitability Analysis – A Case Study of Omalur Block, Salem**”, Tamil Nadu, Land use and Land Cover Changes and its Impacts: Spatial Changes and Geospatial Technologies, Department of Geography, Madurai Kamaraj University, 19-20, February, 2015.
9. Participated and presented a paper on “**Crop Suitability Analysis of Groundnut and Sun Flower Using Geoinformatics – A Case Study of Jallutu Watershed, Tamil**

Nadu National Research Seminar on Scenario of Tribal Development in India Problems and Prospects, Department of Geography, Government College Bichhua, Madhya Pradesh, 27th March, 2017

10. Participated and Presented a paper on “**Urban Expansion and its Impact Green Spaces of Sri Rangam Island, Tiruchirappalli**”, Tamil Nadu National Seminar on Geoinformatics for Rural Health and Environmental Sustainability: Problems and Perspectives, Department of Geography, University of Madras, 29th March, 2017

Training Programs for Research and Development

1. Participated in Spatial information Technology and Applications, Centre for Spatial Information Technology, IST, Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh. 5 - 31 December 2004
2. Participated in GIS – Principles and Applications Conducted by CSRE, IIT Bombay, 5th – 15th July 2005 Mumbai.
3. Participated in International School on LiDAR Technology (International Training Programme), Department of Civil Engineering, Indian Institute of Technology, Kanpur (IITK), March 31 – April 4, 2008.
4. Participated and Successfully completed SAKSHAM – IT Champion Training Program, Sakshat, (NME-ICT), Microsoft & Bharathidasan University, 21-30, June 2012
5. Participated in One Week Special Course on Introduction to Digital Photogrammetry, National Remote Sensing Centre, Hyderabad 22-26 August 2016.
6. One Day National Workshop on Popularisation of Remote Sensing based maps and Geospatial Information – Eve of National Remote Sensing Day 11th Aug, 2017, Department of Geography, Bharathidasan University.

Membership in

Professional Bodies

1. Life Member: Indian Geographical Society

Editorial Board

1. Domain Expert, Geography Text Book-Upper Primary – TNSERT, Government of Tamil Nadu.

Academic Bodies (such as Board of Studies etc.,)

1. Member & Chairman Board of Studies (Geography) Bharathidasan University
2. University Nominee - Board of Studies (Geography) Bharathidasan University, Government Arts College, Karur (Autonomous)
3. University Nominee - Board of Studies (Geography) Bharathidasan University, Kunthavai Nachiar, Government Arts College (Autonomous)
4. External Member – UG & PG Board of Studies (Geography) Periyar University, Salem
5. Member, Geography, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat

Others

1. Join-Secretary - Indian Geographical Society

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 23

Others

1. Tiruchirappalli, All India Radio Interview & Interaction “Environmental Day” 2016

Recent Publications

1. P. Sandeep, G.P. Obi Reddy, **R. Jegankumar**, K.C. Arun Kumar, Monitoring of agricultural drought in semi-arid ecosystem of Peninsular India through indices derived from time-series CHIRPS and MODIS datasets, *Ecological Indicators*, Volume 121, 2021,107033, ISSN470-160X, www.sciencedirect.com/science/article/pii/S1470160X20309729
Impact Factor: 4.229
2. Sandeep, P., Reddy, G.P.O., **Jegankumar, R.** et al. Modeling and Assessment of Land Degradation Vulnerability in Semi-arid Ecosystem of Southern India Using Temporal Satellite Data, AHP and GIS. *Environ Model Assess* (2020). <https://doi.org/10.1007/s10666-020-09739-1>, **Impact Factor: 1.634**
3. Jannath Firthouse Mohammed Yashin, , Aarthi Deivanayagam, Abdul Rahaman Sheik Mohideen, Jegankumar Rajagopal (2020) Comparative Analysis Of Classification Algorithms For Landuse /Landcover Change Over A Part Of The East Coast Region Of Tamil Nadu And Its Environs 2020 IEEE International Geoscience and Remote Sensing Symposium 2-4, December 2020, ISBN 978-1-7281-3114-6
4. Nitheshnirmal, S., Thilagaraj, P., Rahaman, S.A. **R Jegankumar** (2019). Erosion risk assessment through morphometric indices for prioritisation of Arjuna watershed using ALOS-PALSAR DEM Model. *Earth Syst. Environ.* 5: 907. <https://doi.org/10.1007/s40808-019-00578-y>
5. Nivedita Priyadarshini, K., Abdul Rahaman, S., NitheshNirmal, S., **Jegankumar, R.**, Masilamani, P.(2019) SWAT based assessment and prediction of climate change and its impact in thenpennai sub-basin of south India, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.* XLII-5, pp 557-562, **eISSN 2194-9034**
6. Ramkumar M, Kumaraswamy K,Balasubramani K, S Abdul Rahaman, **R Jegankumar** et al. Discovery of buried historicalstructures in the Kaveri-Kollidam interfluve, southernIndia. *Archaeological Prospection.* 2018; 1-16. <https://doi.org/10.1002/arp.172416> (**Impact Factor: 1.579**)
7. **Jegankumar R**, Indira V, Libina R.S, Abdul Rahaman.S (2018) Delineation of Groundwater Potential Zones in Jalluttu Watershed using Remote Sensing and GIS, **Research Review International Journal of Multidisciplinary**, Volume ISSN: 2455-3085, Volume 3, issue 7, pp162- 168. **UGC Ref. No: 44945**
8. Sandeep. P, **R. Jegankumar** (2018) Assessment of Spatial Variability of Rainfall Pattern in Cuddalore district of Tamil Nadu using GIS techniques, **International Journal of Creative Research Thoughts**, ISSN: 2320-2882 Volume 6, issue 1 pp 229-240
9. Priyanka P. L., Madhumitha R, Jincy P. P., Jasim H. R. , Kumaraswamy K., **JeganKumar R.**(2018) Assessment of Groundwater Quality for Domestic Purpose in Kongu uplands, Tamil Nadu; A Geographical Appraisal, **International Journal of Research and Analytical Reviews**, ISSN: 2349-5138, Volume 5, issue 2, pp 333 - 342. **UGC Ref. No: 43602**
10. Jincy P.P., Priyanka P. L., Madhumitha R. , Jasim H. R. Kumaraswamy K. **Jegankumar R.** (2018) A Study on the Cropping Intensity and Crop Combination Regions of Kongu Uplands, Tamil Nadu. **International Journal of Scientific Research and Reviews**, ISSN: 2279-0543, Volume 7, issue 2, pp 157 - 166. **UGC Ref. No: 63179**
11. Madhumitha R, Priyanka P. L. , Jasim H. R. Kumaraswamy K. **Jegankumar R** (2018)

- Delineation of Groundwater Potential Zones of Kongu Uplands, Tamil Nadu, **International Journal of Research and Analytical Reviews**, ISSN: 2349-5138, Volume 5, issue 2, pp 246-256. **UGC Ref. No: 43602**
12. V. Durga, R. **Jegankumar**, S. Abdul Rahaman, Mohite Rohit Dilip (2017) Estimation of Annual Average Soil Loss using RUSLE Model A Case Study of Jallutu Watershed, Tamil Nadu, **Quest International Multidisciplinary Research Journal**, Volume ISSN: 2278-4497, Volume6, issue 8, pp38-50.
 13. M. Ayesha Malligai, R. **Jegankumar** (2018) Mapping Urban Sprawl and Measuring Urban Density using Shannon Entropy: A Case Study of Salem City and its Environ, **International Journal of Science and Research**, Volume ISSN: 1319-7064 volume 7, issue 4, pp1436-1440.
 14. Priyadharshini, R **Jegankumar**, S Aruchamy (2017) Morphometric study of Sweta Nadi Basin, Salem District, Tamil Nadu, India: GIS approach, **International Journal of Academic Research and Development**, ISSN: 2455-4197 Volume 2, Issue 6, pp978-985.
 15. S. Abdul Rahaman, S. Aruchamy, K. Balasubramani, R. **Jegankumar** (2017) Land Use/Land Cover Changes In Semi-Arid Mountain Landscape In Southern India: A Geoinformatics Based Markov Chain Approach, **The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, Volume XLII-1/W1, 2017 ISPRS Hannover Workshop: HRIGI 17 – CMRT 17 – ISA 17 – EuroCOW 17, 6–9 June 2017, Hannover, Germany, pp231-237
 16. Rahaman, S. A., Aruchamy, S., Balasubramani, K., and **Jegankumar, R**(2017) Land Use/Land Cover Changes In Semi-Arid Mountain Landscape In Southern India: A Geoinformatics Based Markov Chain Approach, **Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.** XLII-1/W 1. pp231-237. **eISSN 2194-9034**
 17. S Abdul Rahaman, S Aruchamy, R **Jegankumar** (2016) Geospatial Approach For Forest Cover Change And Vulnerability Analysis Through Multi Criteria Evaluation In Kallar Watershed, Part Of Nilgiri Biosphere Reserve, **GEO EYE**, V 5(2), pp40-50 : ISSN: 2347-4246 **UGC Ref. No: 47773**
 18. **Jegankumar, R.**, Nagarathinam, S. R., Kannadasan, K. and Abdul Rahaman, S., (2015). "Cropping pattern in Salem District, Tamil Nadu, India", **International Journal of Current Research**, Volume 7, Issue (8), 19808-19817.
 19. SA Rahaman, SA Ajeez, S Aruchamy, R **Jegankumar** (2015) Prioritization of Sub Watershed Based on Morphometric Characteristics Using Fuzzy Analytical Hierarchy Process and Geographical Information System–A Study of Kallar Watershed, Tamil Nadu, - **Aquatic Procedia** (Elsevier: ISSN: 2214-241X), V 4, pp1322-1330
 20. Abdul Rahaman, S Aruchamy, S., **Jegankumar, R.**, and Abdul Ajeez, S. (2015): Estimation of Annual Average Soil Loss, Based on Rusle Model in Kallar Watershed, Bhavani Basin, Tamil Nadu, India, **ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci.**, II- 21w2, pp207-214, **eISSN 2194-9050**
 21. S Abdul Rahaman, S Aruchamy, R. **Jegankumar** (2014) Geospatial Approach on Landslide Hazard Zonation Mapping Using Multi-criteria Decision Analysis: A Study on Coonoor and Ooty, Part of Kallar Watershed, The Nilgiris, Tamil Nadu, **ISPRS- International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences**, Vol. XL - 8, , pp 1417- 1422, ISPRS Technical Symposium, 09 - 12, Dec 2014. Hyderabad, **eISSN Number: 2194-9034**.
 22. **Jegankumar R**, S. R, Nagarathinam & Kandasamy, Kannadasan. (2012). Spatial distribution of rainfall in Salem and Namakkal Districts. **International Journal of Geomatics And Geosciences**. Volume 2, Issue , ISSN0976-4380 pp 976-994.

Chapters in Edited Books

1. Subbarayan Saravanan, **R. Jegankumar**, Ayyakkannu Selvaraj, Jacinth Jennifer J, Parthasarathy K.S.S.(2018) Utility of Landsat Data for Assessing Mangrove Degradation in Muthupet Lagoon, South India, Coastal Zone Management, Global Perspectives, Regional Processes, Local Issues, (Edited by Mu. Ramkumar, R. Arthur James, David Menier, K. Kumaraswamy) Elsevier, United Kingdom PP 471 -484 (ISBN: 978-0-12-814350-6)
2. **Viswanathan MB, Rajasekar. C, Sathishkumar. P, Kannadasan. P, Jegankumar. R (2018)** Successful Establishment of Monoon Tirunelveliense (Annonaceae) A Steno-endemic and Critically Endangered Tree, In Maxent and Garp Predicted areas of Kalakkad Mundanthurai Tiger Reserve in India, Ed M.B. Viswanathan, Trends in Plant Systematics, Tiruchirappalli, ISBN: 978-93-5300-462-0, pp 1-17.
3. Revathi, **Jegankumar R**, (2015) Geospatial Technologies for Resources Evaluation and Management (Ed.Saravanabavan, V.), Jayalakshmi Publications, **Madurai Geospatial Technologies for Resources Evaluation 'and Management (Ed. Saravanabavan, V.), Jayalakshmi Publications**, Madurai, pp. 547-552, ISBN 978-93-84193-36-2
4. Nandhini Chella Kavitha M, Aruchamy S,R. **Jegankumar**, Arumugam P. (2015) Groundwater Quality Analysis A Case Study of Permbalur District, **Geospatial Technologies for Resources Evaluation and Management (Ed. Saravanabavan, V.), Jayalakshmi Publications**, Madurai, pp. 105-114, ISBN 978-93-84193-36-2
5. Kanadasan, K, Ganesh A, **Jegankumar, R**, (2015) Prasandsinh Dalavi, Spatial Distribution of Rainfall in Thiruvannamalai District, Using GIS Techniques, **Geospatial Technologies for Resources Evaluation and Management (Ed. Saravanabavan, V.), Jayalakshmi Publications**, Madurai, pp. 36-4, ISBN 978-93-84193-36-2
6. P. Masilamani, S Aruchamy, **R. Jegankumar**, S Abdul Rahaman (2015) Rainfall Analysis of Koraiyar Watershed Coimbatore Tamil Nadu, Landuse/Land Cover Changes and Its Impact Spatial Challenges and Geospatial Technologies, **Ed. Dr. I.K. Manonmani, Shanla"x Publication**, Madurai, ISBN: 978-93-80686-03-5.
7. **R. Jegankumar**, P. Masilamani, Dr. S. R.Nagarathinam (2015) Physical Land Suitability Analysis - A case study of Omalur Block, Salem District, Tamil Nadu, Landuse/Land Cover Changes and Its Impact: Spatial Challenges and Geospatial Technologies, **Ed. Dr. I.K. Manonmani, Shanla"x Publication**, Madurai, ISBN: 978-93-80686-03-5
8. **Jegankumar R**, Umamathi. S (2009) "GIS And Remote Sensing For Urban Heat Island Analysis – A Case Study of Salem City And its Environ" GIS for Natural Resources and Disaster Management (Ed. K. Kumaraswamy), Department of Geography, Bharathidasan University, Tiruchirappalli, pp 203-214
9. **JeganKumar R.**, Kumaraswamy, K., Rutharvel Murthy, K. and Muruganandam, R. (2008) "Landuse / Landcover Influences on Land Surface Temperature: A Remote Sensing and GIS Approach", **Environment, Resource & Development Disparities (Ed. M.B. Bhiradi), Shrigiri Publication**, Bijapur, pp168-173.
10. **Jegankumar R** (2007) "An Introduction to Data Base Management System" Computer Basics for Young Geoscientists, (Ed. A. Ganesh), Department of Geography, Bharathidasan University, Tiruchirappalli, pp 123 – 132

Books Edited

1. Kumaraswamy, K, Balasubramani, K, **Jegankumar, R**, Masilamani, P (2018)
Sustainable of Natural Resources, R. K. Publication, New Delhi,
ISBN: 978-93-82847-243.
2. **Geography** : Domain Expert for Textbook Writing Upper Primary 2019 for Government
of Tamil Nadu

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