

CURRICULUM VITAE



Dr. K. RADHAKRISHNAN, M.Sc., M.Phil., Ph.D.

ASSISTANT PROFESSOR

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BASIC ACADEMIC CREDENTIALS:

<i>Ph.D., in Geology</i>	University of Madras (UNOM) Chennai	Department of Geology, UNOM, Chennai	2017- 2022	Highly commended
<i>M.Phil., in Geology</i>	UNOM, Chennai	Department of Geology, UNOM, Chennai	2016-2017	88.06 %
<i>M.Sc., in Geology</i>	UNOM, Chennai	Department of Geology, UNOM, Chennai	2014-2016	87.04 %
<i>B.Sc., in Geology</i>	Alagappa University	Alagappa Govt. Arts and Science college, Karaikudi.	2011-2014	74.44%
<i>HSE</i>	Tamil Nadu State Board	SRV Boys high school, Rasipuram	2010-2011	84.91%
<i>S.S.L.C</i>	Matriculation Board, Tamil Nadu	21 st Century International Matriculation School, Sivagangai	2008-2009	87.2%

***Ph.D. Thesis title:* A STUDY ON THE PERSISTENT POLLUTANTS AND THEIR ECOLOGICAL RISK FROM SURFACE SEDIMENTS OF SELECTED ESTUARIES, KERALA, SW COAST OF INDIA**

ACHEIVEMENTS:

- Qualified **TNSET Examination** (Mother Teresa Women's University, 2017).
- Qualified **TNPSC Assistant Geologist examination** in 2017.
- Received Merit Fellowship for Rank holder during Post Graduate Course.
- Awarded **University Rank Holder (First Rank) in B.Sc., Geology**, Alagappa University, 2014.

AREA OF SPECIAL INTEREST:

- Stratigraphy
- Petrology
- Geochemistry

- Paleontology
- Optical Mineralogy

TEACHING EXPERIENCE:

- Working as Assistant Professor in the Department of Geology, National College (Autonomous), Tiruchirappalli from 09-03-2024 to till date.
- Worked as a Guest Lecturer in the Department of Geology, University of Madras, Chennai (From July 2022 to February 2024).
- Worked as a Teaching cum Research Fellow (TRF) in the Department of Geology, University of Madras, Chennai (From September 2021 to June 2022).

SCIENTIFIC PUBLICATIONS:

Articles:

International Journals:

1. Potential ecological risk assessment studies based on source and distribution of microplastics from the surface sediments of tropical backwaters, Kerala, India. **Radhakrishnan, K.**, Krishnakumar, S., Prakasheswar, P., Pradhap, D., Akramkhan, N., Gomathi, S., ... & Hussain, S. M. (2023). *Total Environment Research Themes*, 100063.
2. A Baseline Study on Polycyclic Aromatic Hydrocarbons (PAHS) in Surface Sediments, Kerala Estuaries, West Coast of India. **Radhakrishnan, K.**, Prakasheswar, P., Pradhap, D., Akramkhan, N., Rajkumar, A., Maheswaran, S. P., ... & Krishnakumar, S. (2023). *Total Environment Research Themes*, 100055.
3. Pradhap, D., Gandhi, K. S., **Radhakrishnan, K.**, Magesh, N. S., Godson, P. S., Krishnakumar, S., & Saravanan, P. (2023). Distribution and characterization of microplastic from reef associated surface sediments of Vembar group of Islands, Gulf of Mannar, India. *Total Environment Research Themes*, 5, 100024.
4. Characterization and distribution of microplastics in estuarine surface sediments, Kayamkulam estuary, southwest coast of India. *Marine Pollution Bulletin*, 168, 112389. **Radhakrishnan, K.**, Sivapriya, V., Rajkumar, A., Akramkhan, N., Prakasheswar, P., Krishnakumar, S., & Hussain, S. M. (2021).
5. Baseline distributions and sources of polycyclic aromatic hydrocarbons (PAHs) in reef-associated sediments of Vembar group of Islands, Gulf of Mannar, India. D.Pradhap, K. SanjaiGandhi, S.Krishnakumar, K.Neelavannand, **K.Radhakrishnan**, P.Saravanan. *Marine Pollution Bulletin*. Volume 171, October 2021, 112727. <https://doi.org/10.1016/j.marpolbul.2021.112727>
6. A baseline study on elemental concentration and potential ecological risk status of the surface sediments of Ashtamudi Lake, south west coast of India. Hussain, S. M., Anbalagan, S., Kumar,

- K. S., Neelavannan, K., Pradhap, D., **Radhakrishnan, K.**, ... & Krishnakumar, S. (2020). *Marine Pollution Bulletin*, 158, 111410.
7. Genus Kriethe (Ostracoda) as a Proxy to Decipher Paleoceanography: A Global Review of the Genus Mohammed Noohu Nazeer, **K Radhakrishnan**, S M Hussain, V Sivapriya and A Rajkumar. *Oceanography Fisheries Open Access J* 10(3), (2019).
 8. Elemental concentration and potential ecological risk assessment of reef associated surface sediments of Appa Island, Gulf of Mannar Biosphere Reserve, Southeast coast of India. P. Saravanan, S. Krishnakumar, Judith D. Silva, D. Pradhap, A. Vidyasakar, **K. Radhakrishnan**, Prince S. Godson, K. Arumugam, N.S. Magesh. *Marine Pollution Bulletin* 128 (2018) 398–407.
 9. A study on textural characteristics of the Palar River sediments, Sadurangapattinam to Mamandur, Kanchipuram District, Tamil Nadu, India. A. Chinna Durai, S. Ramasamy, S. Narayanan, P. Parthasarathy, P. Govindaraj and **K. Radhakrishnan**. *International Research Journal of Earth Sciences*, ISSN 2321 – 2527 Vol. 5(11), 24-33, December (2017).

National Journals:

10. Distribution of recent benthic Ostracoda around, Appa Island, Gulf of Mannar, India. **K. Radhakrishnan**, S. M. Hussain, P. Prakasheswar and S. Gomathi. *Journal of the Palaeontological Society of India* (2023): 68(2): 293–301.
11. A first report on the distribution of Ostracod taxa in the Ashtamudi Lake, southwest coast of Kerala, India. **K. Radhakrishnan**, S.M. Hussain, P. Prakasheswar, Desna Mary Augustine and Vijayaraman. *Journal of the Palaeontological Society of India* (2023): 68(2): 286–292.
12. Distribution of Recent Ostracoda from the Sediments of Gulf of Mannar, Tamil Nadu, South East Coast of India. **K. Radhakrishnan**, S.M. Hussain*, V. Sivapriya, A. Rajkumar, Mohammed Noohu Nazeer and N. Akram Khan. *Journal of Paleontological Society of India*. Volume 67(1), June 30, 2022: 229-236.
13. Species diversity and distribution of ostracoda from the surface sediments off Vetharanyam, Tamilnadu, south east coast of India. V. Sivapriya, S. M. Hussain*, **K. Radhakrishnan**, A. Rajkumar, M. N. Nazeer and P. Prakasheswar. *Journal of Paleontological Society of India*. Volume 67(1), June 30, 2022: 220-228
14. Recent ostracod biodiversity from shelf to slope sediments of Gulf of Mannar, India: ecologic and bathymetric implications. A. Rajkumar, S. M. Hussain, N. Mohammed nishath, K.T. Dewi, V. Sivapriya, **K. Radhakrishnan**. *Journal of Paleontological Society of India*. Volume 65(1), June 30, 2020.
15. Distribution and statistical aspects of Ostracoda from the Pulicat lagoon, Tamil Nadu: Implications on siltation and microenvironment. S M Hussain*, P Mahalakshmi and **K Radhakrishnan**. *Proc Indian Natn Sci Acad* 86 No. 2 June 2020 pp. 1083-1095. DOI: 10.16943/ptinsa/2019/49713.
16. Textural characteristics and depositional environment of Yedayanthittu estuary sediments, Marakkanam, east coast of TamilNadu, India. P.Parthasarathy , G.Ramesh , A.Rajkumar, G.Jeyabal , **K.Radhakrishnan** , P.Gangatharan S.Muralidharan. *Journal of Interdisciplinary Cycle Research*. Volume XI, Issue XI, November/2019. Page No:716.

Book chapters - International:

17. Mangrove Ostracoda species fluctuations, habitual adaptation, and its environmental implications—A review. S.M. Hussain, Mohammed Noohu Nazeer, **K. Radhakrishnan**, A. Rajkumar and V. Sivapriya. Holocene Climate Change and Environment, 2022. DOI: <https://doi.org/10.1016/B978-0-323-90085-0.00008-5>.
18. Benthos and its interaction with marine and estuarine ecosystem. V. Sivapriya, **K. Radhakrishnan** and S.M. Hussain. Ecology and Biodiversity of Benthos, 2022. DOI: <https://doi.org/10.1016/B978-0-12-821161-8.00008-8>. (ISBN: 978-0-12-821161-8).
19. Ostracod Diversity from Continental slope sediments of Gulf of Mannar, India: Bathymetric and Ecological variations. A. Rajkumar, *S.M. Hussain, S. Maniyarasan, Mohammed Noohu Nazeer and **K. Radhakrishnan**. Quarternary Climate change over Indian subcontinent, 2021. 269-285.

CONFERENCES, SEMINARS and WORKSHOPS ATTENDED:

Presentations at International conferences:

1. Elemental concentration and potential risk status of the surface sediments of Chandragiri backwaters, Kerala. Oral Presentation, in the two day “International Conference on Environmental Sustainability and Social Responsibility” on 10th and 11th January 2023, by Centre for environmental studies and PG & Research Department of Biotechnology, Women’s Christian College, Chennai
2. A baseline investigation on the occurrence and distribution of Microplastics in the highly polluted metropolitan Rivers Adyar and Cooum, Chennai, India, in the International Conference on “Only One Earth- Save Our Mother Earth on 4 th June 2022 to 5 th June 2022 organised by Centre for Environmental Sciences, University of Madras and National Polytechnic Institute (IPN), Mexico City, Mexico.
3. Occurrence of Microplastics and Dibutyl Phthalates in Adyar River, Chennai City. Oral presentation. 5th Joint International Conference on Environmental Sciences & Climate Change: Accomplishments, Plans and Challenges & 13th International Congress on Climate Change, Territorial Classification & Socio-economic Crisis Roles and Responsibilities. (11-15, November,2019, Chennai).
4. Trace elements concentration and environmental risk assessment of Kayalpattinam to Manapad sediments, Gulf of Mannar, TamilNadu, India. Oral presentation. 2nd International Conference on Geology: Emerging methods and applications (GEM 2019). (17-19, January, 2019, Irinjalakuda).

Presentations at national conferences:

5. A baseline study on elemental concentration and potential ecological risk status of the surface sediments of tropical estuaries from Kerala, India. Oral Presentation (Online), in National seminar

- on “Marine pollution and Ecological Degradation-MPAED-2022” on 27th to 29th July 2022, by Department of Geology, Malankara catholic college, Mariagiri, Kanyakumari-629153
6. Distribution of Ostracods in the Surface Sediments of the Kayamkulam Kayal, Southwest Coast of Kerala, India. XXVIII Indian Colloquium on Micropaleontology and Stratigraphy. Oral presentation. (4-6, May, 2022, Pune).
 7. Assessment of potential ecological risk of Microplastics from the surface sediments of selective estuaries in southwest coast of Kerala, India. Oral presentation. Best Presentation Award. National Seminar on “Emerging Pollutant in Geosphere: Impact on Environment, Management, and Challenges”. (9-10, July, 2021, Online).
 8. Recent ostracods from the surface sediments of Appa Island, Gulf of Mannar, TamilNadu, India. Oral presentation. XXVII Indian Colloquium on Micropaleontology and Stratigraphy. (4-6, November, 2019, Varanasi).
 9. Distribution of Ostracods from the Appa Island, Gulf of Mannar, Southeast coast of India. XXVI Indian Colloquium on Micropaleontology and Stratigraphy. Oral presentation. (17-19, August, 2017, Chennai).
 10. Distribution of Foraminifera from the surface sediments of Kayalpattinam to Manapad, Gulf of Mannar, TamilNadu, India. 2nd National Geo-Research Scholars meet. Poster presentation (17-20, May, 2017, Dehradun).
 11. Recent Foraminifera from the surface sediments of Kayalpattinam to Manapad, Gulf of Mannar, TamilNadu, India. 7th All India Students Symposium on Geology. Oral presentation (5-6, December, 2016, Udaipur).

Participated:

1. International Fossil Day Celebration (16 October, 2019, Chennai).
2. National Workshop on Geospatial Technology for Development of Andhra Pradesh, (20th February 2019, Guntur).
3. International Conference on Emerging Contaminants in Water and Environment (ECWE-2019). (22nd & 23rd January, 2019, Coimbatore).
4. International Conference “Disaster Risk Reduction and Prevention Management” (ICDRRPM-2018), (16-17, March, Chennai).
5. Lecture Workshop on Recent Advances in Earth Sciences. (2nd & 3rd February, 2018, Chennai).
6. International Day for the Preservations of the Ozone Layer & World Water Monitoring Day (24th September, 2017, Chennai).
7. UGC-CPEPA Workshop on Mangrove Ecosystem. (24 March, 2017, Chennai)
8. Workshop on “Biodiversity Conservation”. (2nd & 3rd, February 2017, Chennai)
9. Participated in the Conference on “Quaternary Climate: Recent Findings and Future Challenges”, organized at the CSIR-National Institute of Oceanography, Goa from 28-30 April, 2016.
10. Workshop on “Placer Mineral Resources and Sedimentary Environments” Organized by the Department of Geology, University of Madras, Guindy Campus, Chennai, during 17-18, March 2016.

11. International Conference on Mangroves and Climate Change (ICMCC) during 16-18th July, 2015, Organized by School of Earth and Atmospheric Sciences, University of Madras, Guindy Campus, Chennai – 25.
12. National seminar on Quaternary Stratigraphy, Sedimentation and Sea level Changes (QSSS), held during 19-20 March 2015, Organized by the Department of Geology, University of Madras.
13. Workshop on Image Processing and GIS techniques in Geology. (2nd & 3rd August 2013, Trichy).

ORGANISATION OF SEMINARS:

1. Served as “**Co-Convener**” of the online National Seminar on "Microfossils: Significance in Environmental Reconstruction & Retirement Felicitation of Dr. S. M. Hussain," held on June 26, 2024.
2. Served as “**Organising Secretary**” of the “International Fossil Day” organized by the Department of Geology, University of Madras, Chennai (19th October 2023).
3. Served as “**Organising Secretary**” of the “International Fossil Day” organized by the Department of Geology, University of Madras, Chennai (17th October 2022).
4. Served as “**Organising Secretary**” of the “International Fossil Day” organized by the Department of Geology, University of Madras, Chennai (20th October, 2021).
5. Served as “**Organising Secretary**” of the “International Fossil Day” organized by the Department of Geology, University of Madras, Chennai (16th October, 2020).

CRUISE EXPERIENCE:

- Participated in Cruise ORV- SAGAR MANJUSHA for Micropaleontological & Geochemical work on surface sediments in Gulf of Mannar and Lakshadweep Sea (April 12th -23rd, 2019) for the collection of sediment and water samples.

MEMBERSHIP IN PROFESSIONAL BODIES:

- Life Member of the Journal of the Palaeontological Society of India (JPSI), Lucknow.

ORIENTATION/REFRESHER COURSES ATTENDED:

1. Attended the One Week National Level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research, organised by the Internal Quality Assurance Cell (IQAC) of Gauhati University, Assam in association with ipsr solutions limited from 17 April 2024 to 24 April 2024.

2. Attended Faculty Orientation Program held from Monday, 11 March 2024 to Saturday, 16 March 2024 at National College (Autonomous), Tiruchirappalli.

GEOLOGICAL FIELD EXPERIENCE AND INTERNSHIPS:

1. Basic Techniques in Geological Mapping in parts of Kanjamalai and Yercaud, Salem District and Ooty, Nilgiri District, Tamil Nadu. (24th to 28th February 2022).
2. Extensive field work to carryout Geochemical studies on surface sediments from the estuaries of North Kerala. (March 15th-17th, 2022).
3. Three days extensive field work to carryout Micropaleontological studies in the Nethravathi River estuary in Mangalore, West coast of Karnataka. (February 9th to 11th, 2021).
4. Extensive field work to carryout Geochemical studies on surface sediments from the estuaries of South Kerala. (January 15th-17th, 2020).
5. Two days' field work in Kayamkulam Lake. (April 27th & 28th, 2019).
6. On board field work in ORV- SAGAR MANJUSHA for Micropaleontological & Geochemical work on surface sediments in Gulf of Mannar (April 12th -23rd, 2019).
7. Field Visit to Frontal Himalayan Thrust Zone & Quaternary Stratigraphy of Gharwal Himalayas, Deheradun. (19th May 2017).
8. One-day Field Work in and around Aravalli Hill Range, Udaipur. (6th December, 2016).
9. 3 days' extensive field work focused on Island groups in Gulf of Manna. November 14-16, 2016).
10. Geological field visit to Jurassic and Tertiary of Kutch, Great Rann of Kutch, Gujarat. Visit to Zawar and Jamarkotra mines in Rajasthan. (January 29th to February 8th, 2016).
11. In-Plant Training on Role of Geologist in Petroleum Industry. (18th May to 29th May, 2015, Chennai).
12. Basic Techniques in Geological Mapping in parts of Mamandur, Villupuram District and Kadavur, Dindigul District, Tamil Nadu. (28th January to 6th February 2015).

PROFESSIONAL SOFTWARE KNOWN:

1. ArcGis,
2. Origin,
3. Past,
4. Gradistat,
5. Tridraw
6. Aquachem
7. SPSS

INSTRUMENTS HANDLED:

1. X-ray fluorescence (**XRF**) spectrometer (Rigaku Supermini-200),
2. Atomic absorption spectroscopy (**AAS**) (Perkin Elmer Pinnacle),
3. Micropaleontological and Petrological microscope,
4. Resistivity meter,
5. Water analysis kit

PERSONAL INFORMATION:

Name	:	Radhakrishnan K
Date of Birth	:	26.07.1993
Father's Name	:	Krishnamoorthy R
Gender	:	Male
Nationality	:	Indian
Passport number	:	R9948183
Marital Status	:	Single
Languages Known	:	Tamil, Hindi, English and Malayalam.
Contact Address	:	12/13 Aathisankarar Street, Nattarasankottai, Sivagangai Dt- 630556.

RESEARCH INFORMATION:

Orcid ID:	https://orcid.org/0000-0001-7278-4324
Scopus ID:	57201310987
Researcher ID:	KFB-1000-2024
Vidwan-ID:	504442
Google Scholar ID:	O3TKXLAAAAAJ
Citations:	114
h-index:	5
i10-index:	4