



Dr. KANNAN V M

Nationality: Indian **Date of birth:** 10/05/1989

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Home: Keeneth (H), Pattanakad P.O Cherthala, Alappuzha , 688531 (India)

ABOUT ME

I pursue a position of responsibilities that utilize my skills and experience and keen to work in an environment where I can enrich my knowledge. I have completed the graduation and post-graduation in Environmental Science and also conducted research in the Arctic environment. So I would like to leverage my knowledge and research experience into the role of a person in Environmental teaching and management.

LANGUAGE SKILLS

Mother tongue(s): Malayalam

Other language(s): English

EDUCATION AND TRAINING

Ph.D.

School of Environmental Sciences, Mahatma Gandhi University [2014 – 2021]

City: Kottayam | **Country:** India | **Field(s) of study:** Environmental Science | **Thesis:** Studies on Accumulation of Metals and Organic Pollutants in Lower Trophic Level Organisms of Arctic Fjords, Ny-Alesund, Svalbard

MSc

School of Environmental Sciences, Mahatma Gandhi University [01/06/2010 – 31/03/2012]

City: Kottayam | **Country:** India | **Field(s) of study:** Environment Science & Management | **Final grade:** 67% | **Thesis:** Geochemistry and Heavy Metals in the Soils of Kuttanad Agricultural Ecosystem, Kerala

BSc

NSS College, University of Kerala [01/06/2007 – 31/03/2010]

City: Cherthala | **Country:** India | **Field(s) of study:** Environmental Science & Water management(Main) Chemistry (Auxiliary). | **Final grade:** 72.2 %

WORK EXPERIENCE

School of Environmental Sciences, Mahatma Gandhi University – Kottayam

Assistant Professor (on contract)

[08/07/2026 – Current]

Institute for Integrated Programmes and Research in Basic Sciences, Mahatma Gandhi University – Kottayam, India

Assistant Professor (on contract)

[15/08/2023 – 07/07/2026]

School of Environmental Sciences, Mahatma Gandhi University – Kottayam, India

Resource person, Massive Online Open Course (MOOC)

[01/08/2023 – 31/08/2023]

 **NSS College, University of Kerala** – Cherthala, India

Guest Faculty

[05/06/2023 – 07/08/2023]

 **School of Environmental Sciences, Mahatma Gandhi University** – Kottayam, India

Guest Faculty

[05/08/2022 – 03/06/2023]

 **NSS College, University of Kerala** – Cherthala, India

Guest Lecturer

[22/06/2022 – 03/08/2022]

 **NSS College, University of Kerala** – Cherthala, India

Guest Lecturer

[2021 – 2022]

 **School of Environmental Sciences, Mahatma Gandhi University** – Kottayam, India

Technical Assistant

[03/05/2017 – 11/05/2018]

Collection and water and sediment samples for various physical and chemical parameters especially trace metal analysis using sophisticated instrument facilities such as Direct Mercury Analyser (DMA) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

 **School of Environmental Sciences, Mahatma Gandhi University** – Kottayam, India

Project Fellow

[10/02/2016 – 15/03/2017]

Collection of drinking water samples from each district of Kerala and analysis for the perchlorate contamination.

 **School of Environmental Sciences, Mahatma Gandhi University** – Kottayam, India

Project Fellow

[08/04/2013 – 11/03/2015]

Collection and analysis of sediment, water and biological samples for various parameters using UV-Visible spectrophotometer, Flame photometer, Kjeldhal Nitrogen analyser and Voltammetric trace metal analyser.

 **Centre for Water Resources Development and Management** – Trivandrum, India

Junior Research Fellow

[11/12/2012 – 06/04/2013]

Coordination of the practice of integrated mangrove aquaculture in coastal districts of Kerala

PUBLICATIONS

[2025]

Influence of climate change on the distribution of mercury and selected toxic metals in an Arctic fjord. Binish, M. B., Laluraj, C. M., **Kannan, V. M.**, & Sruthy, S. (2025). Influence of climate change on the distribution of mercury and selected toxic metals in an Arctic fjord. *Journal of Hazardous Materials Advances*, 100917. <https://doi.org/10.1016/j.hazadv.2025.100917>
Journal of Hazardous Materials Advances

[2023]

Occurrence and risk assessment of total mercury, methylmercury and other selected trace metals in the surface sediments of the Cochin Estuary, Southwest Coast of India. Binish, M. B., Magesh, N. S., Sruthy, S., **Kannan, V. M.**, & Mohan, M. (2023). Occurrence and risk assessment of total mercury, methylmercury and other selected trace metals in the surface sediments of the Cochin Estuary, Southwest Coast of India. *Regional Studies in Marine Science*, 62, 102924.

[2022]

PCDD/Fs, dioxin-like, and non-dioxin like PCBs in the sediments of high Arctic fjords, Svalbard. **Kannan, V. M.**, Gopikrishna, V. G., Saritha, V. K., Krishnan, K. P., & Mohan, M. (2022). PCDD/Fs, dioxin-like, and non-dioxin like PCBs in the sediments of high Arctic fjords, Svalbard. *Marine pollution bulletin*, 174, 113277.

[2021]

Geochemistry and distribution of Metals in the Sediments of Kongsfjorden, Svalbard, Arctic. Vishnusagar M.K., **Kannan, V. M.**, Gopikrishana, V. G., Krishnan, K. P., and Mohan, M. (2021). Geochemistry and distribution of Metals in the Sediments of Kongsfjorden, Svalbard, Arctic. *Regional Studies in Marine Sciences*. Accepted.

[2021]

Bacterial diversity and community structure along the glacier foreland of Midtre Lovénbreen, Svalbard, Arctic. Venkatachalam, S., **Kannan, V. M.**, Saritha, V. N., Loganathachetti, D. S., Mohan, M., & Krishnan, K. P. (2021). Bacterial diversity and community structure along the glacier foreland of Midtre Lovénbreen, Svalbard, Arctic. *Ecological Indicators*, 126, 107704.

[2020]

Mercury in the sediments of freshwater lakes in Ny-Ålesund, Arctic. Gopikrishna, V. G., **Kannan, V. M.**, Binish, M. B., Shukkur, M. A., Krishnan, K. P., & Mohan, M. (2020). Mercury in the sediments of freshwater lakes in Ny-Ålesund, Arctic. *Environmental Monitoring and Assessment*, 192(8), 1-10.

[2019]

The historical trend in trace metal enrichment in core sediments from Cochin Estuary, Southwest coast of India. ShyleshChandran, M.S., Mohan, M., Ramasamy, E.V., Sreelakshmi, U., Pandit, G. G., Tiwari, M., Sahu, S. K., Bhangare, R. C. & **Kannan, V. M.** (2019). The historical trend in trace metal enrichment in core sediments from Cochin Estuary, Southwest coast of India. *Environmental Nanotechnology, Monitoring and Management*, 11, 100203.

[2019]

Distribution and risk assessment of trace metals in multifarious matrices of Vembanad Lake system, Peninsular India. Shylesh-Chandran, M. S., Ramasamy, E. V., Mohan, M., Jayasooryan, K. K., Augustine, T., & **Mohan, K.** (2019). Distribution and risk assessment of trace metals in multifarious matrices of Vembanad Lake system, Peninsular India. *Marine Pollution Bulletin*, 145, 490-498.

[2019]

Metal content in zooplanktons of two Arctic fjords, Ny-Ålesund, Svalbard. Mohan, M., Nimy, T. K. A., **Kannan, V. M.**, Gopikrishna, V. G., Shukkur, A., Binish, M. B., Arun babu, V., Rakesh, P. S. & Krishnan, K. P. (2019). Metal content in zooplanktons of two Arctic fjords, Ny-Ålesund, Svalbard. *Environmental Nanotechnology, Monitoring & Management*, 12, 100251

[2018]

Culturable endophytic bacteria of ginger rhizome and their remarkable multi-trait plant growth-promoting features. Rohini, S., Aswani, R., **Kannan, M.**, Sylas, V. P., & Radhakrishnan, E. K. (2018). Culturable endophytic bacteria of ginger rhizome and their remarkable multi-trait plant growth-promoting features. *Current Microbiology*, 75(4), 505-511.

[2018]

Rate of sediment accumulation and historic metal contamination in a tidewater glacier fjord, Svalbard. Mohan, M., Sreelakshmi, U., Sagar, M. V., Gopikrishna, V. G., Pandit, G. G., Sahu, S. K., Tiwari, M., Ajmal, P. Y., **Kannan, V. M.**, Shukkur, M. A. & Krishnan, K. P. (2018). Rate of sediment accumulation and historic metal contamination in a tidewater glacier fjord, Svalbard. *Marine Pollution Bulletin*, 131, 453-459

[2018]

Zooplankton diversity in Kongsfjord, Svalbard, Arctic. **Kannan, V. M.**, Nimy, K. A., Gopikrishna, V. G., Rakesh, P. S., Krishnan, K. P., & Mohan, M. (2018). Zooplankton diversity in Kongsfjord, Svalbard, Arctic. *Tropical Ecology*, 59(3), 541-544

[2017]

Haematological Variations of *Etroplussuratensis* with respect to Heavy Metal Contamination in Two Distinct Regions of Vembanadu Estuary, South-West Coast of India. **Kannan, V. M.**, Renjini, P., Gopikrishna, V. G., Binish, M. B. & Mohan, M. (2017). Haematological Variations of *Etroplussuratensis* with respect to Heavy Metal Contamination in Two Distinct Regions of Vembanadu Estuary, South-West Coast of India. *Environmental Pollution and Protection*, 2 (3), 85-91

[2017]

Mercury Fractionation in the Sediments of Kongsfjorden, an Arctic Fjord, Svalbard. Mohan, M., Chandini, P. K., Krishnan, K. P., Gopikrishna, V. G., Sajinkumar, K. S., & **Kannan, V. M.** (2017). Mercury Fractionation in the Sediments of Kongsfjorden, an Arctic Fjord, Svalbard. *International Journal of Marine Science*, 7.

[2014]

Geochemistry and heavy metals in the soils of unique tropical rice agricultural ecosystem. **Kannan, V. M.**, Augustine, T., Cherian, N., & Mohan, M. (2014). Geochemistry and heavy metals in the soils of unique tropical rice agricultural ecosystem. *Journal of Environment*, 3, 5-11.

[2014]

Rhizosphere bacterial diversity and heavy metal accumulation in *Nymphaeapubescens* in aid of phytoremediation potential. Kabeer, R., Varghese, R., **Kannan, V. M.**, Thomas, J. R., & Poullose, S. V. (2014). Rhizosphere bacterial diversity and heavy metal accumulation in *Nymphaeapubescens* in aid of phytoremediation potential. *Journal of BioScience and Biotechnology*, 3(1), 89-95

CONFERENCES AND SEMINARS

[2019] CUSAT, Marine Campus, Kerala

MARICON 2019, Conference on frontiers in Marine science, challenges and prospects. Paper presented: **Kannan V M**, Gopikrishna V.G., Mahesh Mohan (2019). *Selected organic pollutants in the sediments of kongs fjord, Ny-Alesund, Svalbard*. MARICON 2019, Conference on frontiers in Marine science, challenges and prospects.

[2019] CUSAT, Marine Campus, Kerala

MARICON 2019, Conference on frontiers in Marine science, challenges and prospects. Paper presented: **Kannan V M**, Mahesh Mohan, Gopikrishna VG, Binish MB, Krishnan KP (2019). *Spatial and temporal distribution of mercury and other heavy metals in Kongs fjord, Ny- Alesund Svalbard*. MARICON 2019, Conference on frontiers in Marine science, challenges and prospects.

[2017] National Centre for Antarctic and Ocean Research, Goa, India

National Conference on Polar Science (NCPS-2017) Paper presented: **V. M. Kannan**, U. Sreelakshmi, M.K. Vishnu Sagar, V.G. Gopikrishna, G.G Pandit, S.K. Shanu, M. Thivari, P.Y. Ajmal, M. Abdhul Shukkur and Mahesh Mohan (2017). *Temporal trends of Selected Heavy Metals in the Core Sediment of Kongsfjorden, Ny-Alesund*.

[2014] School of Environmental Sciences, MG University, Kottayam.

Workshop cum nineteenth National Symposium on Environment, NSE-19 Paper presented: Cherian, **Kannan V. M**, Thafna K K and Mahesh Mohan (2014) *Mercury Contamination in a Unique Tropical Agricultural Wetland Ecosystem*.

[2012] School of Environmental Sciences, MG University, and Kottayam.

LAKE-2012, National Conference on Conservation and Management of Wetland Ecosystems Paper presented: **Kannan V .M**, Toms Augustine, Navya Cherian, Mahesh Mohan. (2012). *Geochemistry and Heavy Metals in the Soils of Kuttanad Agricultural Ecosystem, Kerala*

INTERNATIONAL EXPEDITIONS

[2015]

Indian Arctic Expedition

Participated in Indian Arctic Expedition 2015, organized by National Centre for Polar and Ocean Research (NCPOR)

[2018]

Indian Arctic Expedition

Participated in Indian Arctic Expedition 2018, organized by National Centre for Polar and Ocean Research (NCPOR)

[2017]

Indian Ocean expedition

Participated in Indian Ocean expedition from Mauritius to Chennai as a part of the survey and Exploration of Hydrothermal Sulphide Vents in parts of Central and South–West Indian Ridges, organized by National Centre for Polar and Ocean Research (NCPOR).

ANALYTICAL AND INSTRUMENTAL EXPERTISE

Major Expertise in Analytical and Instrumentation Stream

- Major water and Soil quality parameters
- **ICP-MS**
- **DMA** (Direct Mercury Analyser)
- Voltammetric Trace Metal Analyser
- UV-Visible Spectrophotometer
- Kjeldahl Nitrogen analyzing unit

THRUST AREAS OF RESEARCH

Research Areas

- Polar studies
- Environmental Chemistry
- Environmental pollution

TRAINING /WORKSHOP/SEMINAR ATTENDED, CERTIFICATIONS

[11/12/2014 – 13/12/2014]

National Symposium on Environment, NSE-19, School of Environmental Sciences, MG University, Kottayam.

[03/07/2014 – 05/07/2014]

Nature Camp, Kerala Forests & Wildlife at Periyar Tiger Reserve

[27/03/2014 – 28/03/2014]

National Workshop on Biogeochemistry, Department of Environmental Sciences, University Kerala.

[28/11/2013 – 30/11/2013]

National Conference on Heavy Metals in the Environment, School of Environmental Sciences, MG University, Kottayam.

[05/09/2013 – 06/09/2013]

National Workshop on Mass Spectrometry, Inter University Instrumentation Centre, MG University, Kottayam

[06/11/2012 – 08/11/2012]

National Conference on Conservation and Management of Wetland Ecosystems, LAKE-2012, School of Environmental Sciences, MG University

[19/03/2012]

Workshop on Bhuvan , ISRO's Geoportal, Indian Space Research Organization, at IIITM- K , Trivandrum.

[20/01/2012 – 21/01/2012]

Sustainable Developments Recent Trends in Meeting the Challenges (NSSD,SES-MGU Kottayam, Directorate of Environment and Climate Change, Government of Kerala)

[20/01/2012 – 21/01/2012]

Disaster, Risk and Vulnerability Conference, DRVC-2011 (12-14 March 2011) Sustainable Developments Recent Trends in Meeting the Challenges (NSSD,SES-MGU Kottayam, Directorate of Environment and Climate Change, Government of Kerala), MG University

[14/06/2011 – 16/06/2011]

Nature Camp, Kerala Forests & Wildlife at Periyar Tiger Reserve

[02/02/2009]

Awareness programme in connection with World Wetland Day by WWF and Thenmala Ecotourism Promotion Society at NSS College Cherthala

REFERENCES

Dr. Mahesh Mohan

Associate Professor, School of Environmental Sciences, Mahatma Gandhi University, Kottayam.

Mob: +91 9447871596

E-mail: maheshmohan@mgu.ac.in

Prof. Dr. E.V. Ramasamy

Professor and Dean, School of Environmental Sciences, Mahatma Gandhi University, Kottayam.

Mob: +91 9447095935

E-mail: evramasamy@mgu.ac.in

Dr. A. P. Pradeepkumar

Professor, Department of Geology, University of Kerala, Thiruvananthapuram.

Mob: +91 9895245380

E-mail: geo.pradeep@keralauniversity.ac.in

I do hereby declare that the information stated above are true and correct to the best of my Knowledge and belief.

Alappuzha, Kerala, 10/07/2026

A handwritten signature in black ink, appearing to be 'K' followed by a horizontal line and a small flourish.

Dr. KANNAN V M