CURRICULUM VITAE

Profile

Name	: **Dr. KANNAN V. M.**
Date of birth	: 10/05/1989
Place of birth	: Cherthala, Alappuzha
Father's name	: Mohanan O. V.
Mother's name	: Thankamani M. P.
Gender	: Male
Marital status	: Unmarried
Religion	: Hindu
Nationality	: Indian
Domicile state	: Kerala
Languages	: Malayalam, English
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Educational Qualifications

Type of Degree	Name of School Location	Year	Major Subjects	Mark %
Ph.D.	School of Environmental Sciences, MG University, Kottayam, Kerala, India	2014-2021	Environmental Science	
Master of Science (Post Graduation)	School of Environmental Sciences, MG University, Kottayam, Kerala, India	2010-2012	Environment Science & Management	67%
Bachelor of Science (Graduation).	NSS College, Cherthala (Kerala University)	2007-2010	Environmental Science & Water management(Main) Chemistry (Auxiliary).	72.2 %
Higher Secondary	SCUGV HSS, Pattanakad (Board of Higher secondary Examination)	2004-2006	Physics, Chemistry, Maths, Biology	64 %
SSLC	VRVM GV HSS, Vayalar (General Education Department)	2004	Science, Social studies, Maths	62 %

Professional Experiences

Teaching Experience

Designation	Name of the organisation	Duration
Guest Lecturer	NSS College, Cherthala	Academic year 2021-2022

Research Experience

Designation	Name of the Organization	Duration		Type of work
		From	To	
Junior Research Fellow	Centre for Water Resources Development and Management, Trivandrum	11-12-2012	06-04-2013	Coordination of the practice of integrated mangrove aquaculture in coastal districts of Kerala
Project Fellow	School of	08-04-2013	11-03-2015	Collection and analysis of sediment, water

	Environmental Sciences, Mahatma Gandhi University			and biological samples for various parameters using UV-Visible spectrophotometer, Flame photometer, Kjeldhal Nitrogen analyser and Voltammetric trace metal analyser.
Project Fellow	School of Environmental Sciences, Mahatma Gandhi University	10-02-2016	15-03-2017	Collection of drinking water samples from each district of Kerala and analysis for the perchlorate contamination.
Technical Assistant	School of Environmental Sciences, Mahatma Gandhi University	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).

Number of Publications

National	03
International	11

International Expeditions

- Participated in Indian Arctic Expedition 2015 and 2018, organized by National Centre for Polar and Ocean Research (NCPOR)
- 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).

Theses

- Ph.D. Thesis: **"Studies on Accumulation of Metals and Organic Pollutants in Lower Trophic Level Organisms of Arctic Fjords, Ny-Alesund, Svalbard"** under the guidance of Dr. Mahesh Mohan, Assistant Professor, School of Environmental Sciences- Thesis submitted on 12-03-2021
- M.Sc Thesis: **"Geochemistry and Heavy Metals in the Soils of Kuttanad Agricultural Ecosystem, Kerala"** under the guidance of Dr. Mahesh Mohan, Assistant Professor, School of Environmental Sciences
- M.Sc Group Project: "**Pathiramanal; Ecological and Historical Aspects"** under the guidance of Dr. Mahesh Mohan and Dr. Sylas V. P., Assistant Professors, School of Environmental Sciences

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Thrust areas of Research

- Polar studies
- Environmental Chemistry
- Environmental pollution

Major Expertise in Analytical and Instrumentation Stream

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

Research Papers Published in National/International Journals

1. **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.
2. 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.
3. 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.
4. 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.
5. 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
6. **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
7. 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

8. Mohan, M., Chandini, P. K., Krishnan, K. P., Gopikrishana, 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*.
9. 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
10. 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.
11. 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.
12. **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
13. **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.
14. Kabeer, R., Varghese, R., **Kannan, V. M**., Thomas, J. R., &Poulose, 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.

Conference Paper Presented

1. **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.

2. **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.
3. **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.* National Conference on Polar Science (NCPS-2017), Conducted at National Centre for Antarctic and Ocean Research, Goa.
5. Navya Cheriyan, **Kannan V. M**, Thafna K K and Mahesh Mohan (2014) *Mercury Contamination in a Unique Tropical Agricultural Wetland Ecosystem.* Workshop cum nineteenth National Symposium on Environment, NSE-19 Conducted at School of Environmental Sciences, MG University, Kottayam.

6. **Kannan V .M**, Toms Augustine, Navya Cherian, Mahesh Mohan. (2012). *Geochemistry and Heavy Metals in the Soils of Kuttanad Agricultural Ecosystem, Kerala.* LAKE-2012, National Conference on Conservation and Management of Wetland Ecosystems conducted at School of Environmental Sciences, MG University, and Kottayam.

Training /Workshop/Seminar Attended, Certifications

- National Symposium on Environment, NSE-19 (11-13 December 2014) School of Environmental Sciences, MG University, Kottayam.
- National Workshop on Biogeochemistry (27-28 March 2014), Department of Environmental Sciences, University Kerala.
- Nature Camp (3-5 July, 2014) Kerala Forests & Wildlife at Periyar Tiger Reserve

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- National Conference on Heavy Metals in the Environment (28-30 November 2013) School of Environmental Sciences, MG University, Kottayam.
- National Workshop on Mass Spectrometry (5-6 September 2013) Inter University Instrumentation Centre, MG University, Kottayam
- National Conference on Conservation and Management of Wetland Ecosystems, LAKE-2012 (6-8 November 2012) School of Environmental Sciences, MG University,
- Sustainable Developments Recent Trends in Meeting the Challenges (NSSD,SES-MGU Kottayam, Directorate of Environment and Climate Change, Government of Kerala) 20 to 21st January 2012, School of Environmental Sciences, MG University, Kottayam.
- Workshop on *Bhuvan* , ISRO's Geoportal (19 March 2012) Indian Space Research Organisation, at IIITM- K , Trivandrum.
- Disaster, Risk and Vulnarability 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) 20 to 21st January 2012, School of Environmental Sciences, MG University, Kottayam.
- Nature Camp (14-16 June, 2011) Kerala Forests & Wildlife at Periyar Tiger Reserve
- Awareness programme in connection with World Wetland Day 2009 (2 February 2009) by WWF and Thenmala Ecotourism Promotion Society at NSS College Cherthala

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References

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Declaration

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

Alappuzha **KANNAN V.**
M.
26-05-2022

Personal Statement

The graduation programme was an initiation to the field of Environmental Science. The interdisciplinary form of the area, basic environmental matters, and the parameters to monitor the environmental quality and its importance to maintain were learned from there. Later I opted School of Environmental Sciences, Mahatma Gandhi University, for Post graduation in the same field. This school is a perfect platform for environmental studies. I got opportunities to study the subject in detail with a thriving standard lab facility with sophisticated instruments. I could use this period to understand and use the instruments for environmental monitoring, and I also participated in many field works and sampling analysis. After completing the M.Sc, I joined as a junior research fellow at Centre for Water Resources Development and Management (CWRDM), Thiruvananthapuram, where I got a different social-oriented work experience, more clearly environmental management through social involvement. In 2014 I joined as a Ph.D. student under the guidance of Dr. Mahesh Mohan, he is an excellent research guide, and I don't have words to explain his inspiration and advice to approach research. During my research tenure, I have worked on some time-bound projects conducted in our departments and guided the students who came to our department for their dissertation work. Both were the factors for the improvement of myself in this field. Then I participated in the Indian Arctic expedition in 2015 and 2018, a proud experience of being a scientific member to represent India. My research work is also related to the Arctic environment, so I collected samples during the expedition and worked in HIMADRI, Indian Arctic Research Station. In 2017, I was selected as the crew members of the Indian Ocean expedition from Mauritius to Chennai for exploring the sulphide plumes. That was also an

experience and opportunity to handle the marine sampling devices and analyzing instruments on-board research vessel MGS SAGAR. I have submitted my thesis with a few publications and some papers I have communicated. In future, I would like to obtain a position in environmental teaching or management