

Curriculum Vitae

Personal Details

Name : Dr. Jainy Varghese

D.O.B : 04/04/1984

Current Post : Assistant Professor

Official Address : School of Environmental Studies,
Thunchath Ezhuthachan Malayalam University, Vakkadu P.O.,
Tirur, Malappuram-676502, Kerala, India

Residential Address : Ponnakkeril, Ulavaipu P.O, Poochakkal, Cherthala, Alappuzha-
688526, Kerala, India.

Qualification

- PhD in Environmental Sciences, 2016, University of Kerala; Thesis Topic: "Evaluation of Groundwater quality and Health status of residents in the surroundings of Valiathura Sewage Farm in Thiruvananthapuram District, Kerala" under the guidance of Dr.Jaya D.S. (Professor, Dept. of Environmental Sciences, University of Kerala).
- MPhil in Environmental Sciences, 2008, A Grade, University of Kerala
- MSc in Environmental Sciences, 2006, First Class, University of Kerala.
- BSc in Environment and Water Management, 2004, Distinction, University of Kerala.

Past Experience

- Worked as a Project Assistant on a contract basis in State Environment Impact Assessment Authority (SEIAA), Thiruvananthapuram, Kerala from 04-12-2014 to 7-10-2016.

My Zone / Area of Expertise

Environmental Pollution, Groundwater quality and Health, Waste management, Environmental Health, Environmental Education, Sustainable Development

Awards

- **Best Poster Presentation award** in "National Seminar on Soil Pollution and Paradigms for Sustainable Soil Management (SPSSM), 2015.

- **DAAD (German Academic Exchange Service) fellowship-** Participated Indo-German Centre for Sustainability (IGCS) Summer School 2013 on “Sustainable Development of Future Urban Environments- Integrated Approaches for Sustainable Waste and Water Management” from 2nd July to 14th July 2013 hosted by the Department of Engineering Geology and Hydrogeology, RWTH Aachen University, Germany with the scholarship of DAAD (German Academic Exchange Service).
- **Junior Research Fellowship**, Kerala State Council for Science and Technology (KSCSTE)
- **Merit certificate for 3rd Rank** in MSc, 2006.

Publications

Publications in Journals/Conference Proceedings

- **Jainy Varghese**, Jaya D.S. and Sheela A.M. (2019). Evaluation of Groundwater Quality in the surroundings of Sewage Farm in Kerala, South India - A Multivariate Analysis Approach, Geophysical Research Abstracts Vol. 21, EGU2019-1479-1.
- **Jainy Varghese** and D.S. Jaya (2018). Assessment of socio-environmental and health status of residents near Valiathura Sewage Farm in Thiruvananthapuram District, Indian Journal of Environmental Protection, 38(6):511-525.
- **Jainy Varghese** and D.S.Jaya (2015). Physical characteristics and Nutrient status of soils in the surrounding area of Valiathura Sewage Farm, Thiruvananthapuram District, Kerala. In: Proceedings of “National Seminar on Soil Pollution and Paradigms for Sustainable Soil Management (SPSSM) 2015.
- **Jainy Varghese** and D.S.Jaya (2014). Metal Pollution of Groundwater in the Vicinity of Valiathura Sewage Farm in Kerala, South India. Bulletin of Environmental Contamination and Toxicology, 93 (6): 694-698.
- **Jainy Varghese** and D.S.Jaya (2014). Evaluation of Physico-chemical quality of Groundwater in the surroundings of Valiathura Sewage farm in Thiruvananthapuram District, Kerala, South India. Environment Conservation Journal, 15 (1&2): 135-148.
- **Jainy Varghese** and D.S.Jaya (2013). Pollution Status Assessment of Water Sources in the Surroundings of Valiathura Sewage Farm in Thiruvananthapuram District, Kerala. In: Proceedings of “26th Kerala Science Congress”.

- **Jainy Varghese** and D.S.Jaya (2011). Assessment of nutrient minerals status in the groundwater sources around the Valiathura sewage farm in Thiruvananthapuram, Kerala. *The Ecoscan*, 1: 369-376.
- **Jainy Varghese** and D.S.Jaya (2009). Assessment of the bacteriological quality of groundwater around the sewage farm in Muttathara-Valiathura area, Thiruvananthapuram District. *Indian Journal of Environmental Protection*, 29 (5): 430-434.
- **Jainy Varghese** and D.S.Jaya (2008). Drinking water quality assessment of rain water harvested in Ferro-cement tanks in Alappuzha District, Kerala (India). *Journal of Environmental Science and Engineering*, 50 (2): 115-120.

Book Chapters published

- **Jainy Varghese** (2021). "Mazhavellasambharanam", *Yojana Magazine*, April, pp:31-36. ISSN-0971-8400.
- P.S.Sudina and **Jainy Varghese** (2021). Study on the Drinking water issues of a coastal locality of Purathur, Malappuram, Kerala, In:Vashisht A.K. and George, A. (Eds.), *Impact of Climate Change Biodiversity and Environment*. Astral International Pvt.Ltd., New Delhi, pp:29-34.
- **Jainy Varghese** and D.S. Jaya (2018). Bacterial Pathogen Detection in the Groundwater sources of Valiathura-Muttathara areas of Thiruvananthapuram District, Kerala. In: Joseph, S., Pradeepkumar, A.P., Shaji, E., Thanga, V.S.G. and Jaya, D.S. (Eds.), *Proceedings of International Conference on Water Resources: Innovation in Quality and Quantity, Sustainable Development Challenges and Management*, ISBN:978-81-937053-0-8.
- **Jainy Varghese** (2017). 'Bhoogarphajalathekurichu bhoomiyilthottulla chilakaryagal', In Asok Dcruz (Ed.), *Veendedukanavatha Vakku*, Pranatha books, Kochi, pp:162-167.

Seminar / Conferences

Paper presented in International/National Conferences/Seminars

- **Jainy Varghese** and Jaya D.S. (2019). Coliform Contamination in Groundwater sources in the Vicinity of Sewage Farm in Kerala, South India. Presented in 10th International Congress of Environmental Research held on 19th December to 21st December 2019 at Adi Shankara Institute of Engineering and Technology, Kalady, Kerala.

- **Jainy Varghese**, Jaya D.S. and Sheela A.M. (2019). Evaluation of Groundwater Quality in the surroundings of Sewage Farm in Kerala, South India - A Multivariate Analysis Approach. Presented in European Geosciences Union General Assembly held on 7th April to 12th April 2019 in Vienna, Austria.
- **Jainy Varghese** and D.S. Jaya (2018). Bacterial Pathogen Detection in the Groundwater sources of Valiathura-Muttathara areas of Thiruvananthapuram District, Kerala. Paper presented in International Conference on Water Resources: Innovation in Quality and Quantity, Sustainable Development Challenges and Management held on 15-18 March 2018 in Dept. of Environmental Sciences and Dept. of Geology, University of Kerala.
- **Jainy Varghese** and D.S.Jaya (2015). Physical characteristics and Nutrient status of soils in the surrounding area of Valiathura Sewage Farm, Thiruvananthapuram District, Kerala. Paper presented in “National Seminar on Soil Pollution and Paradigms for Sustainable Soil Management (SPSSM) 2015” held on 4th and 5th December 2015, organized by Department of Environmental Sciences, University of Kerala.
- **Jainy Varghese** and D.S.Jaya (2013). Pollution Status Assessment of Water Sources in the Surroundings of Valiathura Sewage Farm in Thiruvananthapuram District, Kerala. Paper presented in the “26th Kerala Science Congress”, held at Wayanad, Kerala from 28th January to 31st January, 2014.
- **Jainy Varghese** and D.S.Jaya (2011). Assessment of nutrient minerals status in the groundwater sources around the Valiathura sewage farm in Thiruvananthapuram, Kerala. Paper presented in “3rd International Conference on Climate Change, Forest Resource and Environment,” held in December 09 – 11, 2011, at Thiruvananthapuram, organized by Department of Environmental Sciences, University of Kerala in association with National Environmentalists Association, India.

Positions Held

- Director, School of Environmental Studies, Thunchath Ezhuthachan Malayalam University (12th June 2018 to 26th October 2021).

- Chairperson, Board of Studies, School of Environmental Studies, Thunchath Ezhuthachan Malayalam University (2019-2021).
- Member- Academic Council, Thunchath Ezhuthachan Malayalam University.
- Member-European Geosciences Union, Germany

Current Positions in Academic or Professional Bodies

- Member- Internal Quality Assurance Cell, Thunchath Ezhuthachan Malayalam University.
- Chairperson, Board of Studies, School of Environmental Studies, Thunchath Ezhuthachan Malayalam University

Delivered Invited talks

- Delivered invited talk in Value Added Course on Resource analysis and Environmental Impact Assessment on 17th August 2021 organized by Dept. of Environmental Sciences, Calicut University, Kerala
- Delivered Invited talk in MESMAC International Conference on 28th January 2021 organized by MES Mampad College (Autonomous), Malappuram, Kerala.
- Delivered Invited talk on Organic farming at Kuttiyil A.U.P. School, Padiyam, Vettom , Tirur, Kerala on 25-10-2018.
- Resource Person in Talent Hunt Sasthrajalakam organized by State Institute of Educational Technology (SIET), General Education Department, Government of Kerala on 30-11-2018 at MES College, Mampad, Kerala.

Research Guidance

- PG: 13MA and 4 MSc
- MPhil : 1 completed and ongoing- 1
- PhD: ongoing-1

Trainings Programmes Attended

- Participated Refresher Course on Research Methodology for Faculty of Social Sciences organized by Human Resource Development Centre, University of Hyderabad during 4th August 2020 to 18th August 2020.
- Participated in the Online Faculty Induction Programme organized by UGC-HRDC Kannur University from 03.09.2020 to 02.10.2020.
- Completed Four week online course on Environment Education organized by Centre for Science and Environment, New Delhi from 17th August to 14th September 2020.

- Completed Swayam Four week course on Water, Society and Sustainability on September-October 2020 conducted by IIT, Kharagpur.
- Attended State level Nodal officers training on Green Protocol conducted by Haritha Keralam Mission on 8th May, 2018 at IMG, Thiruvananthapuram.
- Participated One day orientation Programme in Sustainable Development held on 24th March 2017 organized by World Institute of sustainable Energy, Pune
- Participated training course on “Aquifer Information System and Aquifer Management Plan” held at Central Ground water Board, Trivandrum, Kerala during January 15-19, 2013.
- Participated short term training programme in “Analytical Instrumentation (Spectroscopic and Chromatographic techniques)” organized by Advanced Centre of Environmental Studies and Sustainable Development and Inter University Instrumentation Centre, M.G. University held during September 12-14, 2012 at the School of Environmental Sciences, Kottayam, Kerala.
- Participated short term training course on “Isotope tracer techniques for Water resources Development and Management” organized by Centre for Water Resources Development and Management (CWRDM) Kozhikode from 15-6-2009 to 20-6-2009.

Workshop Attended

- Participated UGC-ISF International Workshop on Ecosystem Service Assessment for the Sustainable management of Ashtamudi and Sasthamkotta Lakes Management held at Dept. of Environmental Sciences, University of Kerala, Thiruvananthapuram, Kerala during January 17-18 2020.
- Participated National Workshop on Experimental Learning with Indian Educators on Marine debris and its Management held at Dept. of Environmental Sciences, University of Kerala, Thiruvananthapuram, Kerala During June 11-15th 2019.
- Participated Workshop on UG Syllabus Revision in Environmental Sciences Course in the College Affiliated to University of Kerala-2019 held on 25-26 March 2019 organized by Dept. of Environmental Sciences, University of Kerala, Thiruvananthapuram.
- Participated Workshop on Role of LSGD’S & Citizens for clean Environment conducted by IRTC Mundur, Palakkad during the period from 8-2-2019 to 9-2-2019.
- Participated State Level Workshop on “Environmental Impact Assessment” held on 8- 10 February 2018, organized by Dept. of Environmental Sciences, MG University, Kottayam.
- Participated workshop on Rethinking Development in the Context of Climate Change, held on 2nd and 3rd October 2018 jointly organized by the Network of Women in Media, India and Kerala Media Academy.

- Participated National workshop on “Biogeochemistry” held on 27- 28 March 2014, organized by Dept. of Environmental Sciences, University of Kerala, Thiruvananthapuram.
- Participated National workshop on “Basic Principles and Applications of GEOSPATIAL TECHNOLOGY” from 14th to 20th February 2013, organized by Department of Earth Sciences, Annamalai University, Tamil Nadu.
- Participated DST-PURSE sponsored workshop on “Frontiers of Spectroscopy and Microscopy” held at M.G. University, Kottayam, Kerala from 10th to 12th September 2012.
- Participated National workshop on “Statistical tools for data analysis and interpretation” held on 13-14 October 2011, organized at Christ University Nodal Office, Vazhuthakkad, Thiruvananthapuram
- Participated workshop on “Capacity Building in Scientific/Technical Writing Skills” Organized by Tropical Botanic Garden and Research Institute & Centre for Information Literacy Studies, University of Kerala, held on 21-25 March 2011, at TBGRI, Thiruvananthapuram.
- Participated three day workshop on “Elemental Detection and Analysis” organized by Sophisticated Test and Instrumentation Centre (STIC), Cochin University of Science and Technology, Cochin during December 17-19, 2009.
- Participated workshop on “Groundwater Development and Management in Kerala and Lakshadweep” on 18th and 19th March 2009 at Hotel Residency Towers, Trivandrum, organized by Central Groundwater Board, Trivandrum.