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A highly organized and hard-working individual looking for a responsible position to gain practical experience. Possess Ph.D. in Environmental Science, MPhil degree in Environment Management and MSc degree in Environmental Science and Management. Experienced environmental specialist with over eight years of experience in environmental management.

EXPERIENCE

ENVIS Centre, Amrita University, Tamil Nadu, India

FEBRUARY 2020 TO MARCH
2021

Information Officer

- Conducted outreach campaigns and Green Skill Development Program for tribal communities in Maharashtra, Tamil Nadu, and Kerala.
- Developed environmental informational documents such as brochures, flyers, and fact sheets.
- Contacted government officials, scientists, and researchers to conduct environmental awareness programs (Webinars, Workshops, etc.)
- Prepared detailed reports of ENVIS activities.

District Disaster Management Authority, Pathanamthitta, Government of Kerala

NOVEMBER 2019 TO JANUARY
2020

Emergency Operations Coordinator

- Handled communication devices like VHF communication, hotline, and landline. Developed team communications and information for meetings.
- Collaborated with the home department for the smooth functioning of the Emergency Operation Center.
- Worked closely with the revenue department to maintain optimum levels of communication to effectively and efficiently complete the pilgrimage season.
- Prepared daily reports Crowd Management and conducted mock drills.

Advanced Centre of Environmental Studies and Sustainable Development, Kerala, India

DECEMBER 2018 TO OCTOBER
2019

Project Fellow

- Conducted research on molecular characterization of bacteria and earthworms
- Carried out field work in different forest ecosystems of Kerala, India
- Handled instruments like Direct Mercury Analyzer, PCR Thermal Cycler, Gel Electrophoresis
- Prepared reports of the projects

Mahatma Gandhi University, Kerala, India

MAY 2017 TO MAY 2018

Project Fellow

- Maintained detailed journals of all methods used in testing and research conducted by laboratory scientists.
- Conducted research on heavy metal remediation techniques.

- Carried out fieldwork in Vembanad Wetland Ecosystem and collected water, pore water, sediment, microplastic samples
- Handled sophisticated instruments like Direct Mercury Analyzer, ICP-MS, GC-MS, FTIR, PCR, etc.
- Published journal papers and prepared project reports.

**School of Environmental Sciences,
Kerala, India**

APRIL 2013 TO APRIL 2017

Research Fellow

- Collected water, sediment, and ice samples from Svalbard, Arctic
- Collected water, pore water, and sediment samples from Periyar river and Vembanad Lake, Kerala, India
- Isolated aerobic and anaerobic bacteria from the samples
- Molecular identification isolated bacteria
- Conducted research on the bacterial metal reduction
- Prepared the reports and published journal papers

EDUCATION

**Mahatma Gandhi University, Kerala,
India**

Ph.D. (April 2022)

Environmental Science

**Mahatma Gandhi University, Kerala,
India**

OCTOBER 2010 TO OCTOBER
2011

Master of Philosophy

Environment Management (CGPA: 7.0)

**Mahatma Gandhi University, Kerala,
India**

JULY 2008 TO JUNE 2010

Master of Science

Environment Science and Management (CGPA: 7.4)

**Mahatma Gandhi University, Kerala,
India**

JUNE 2005 TO MARCH 2008

Bachelor of Science

Zoology, Botany and Chemistry (Marks: 64%)

ACHIEVEMENTS

**Team Member Indian Scientific
Expedition to Arctic**

JULY 2018

Organized by National Centre for Polar and Ocean Research,
Government of India

**Participant of major National program
on Survey and Exploration of
Hydrothermal sulphide vents/
deposits in parts of Central and South-
West Indian ridges**

FEBRUARY 2017 TO MARCH
2017

Organized by National Centre for Polar and Ocean Research,
Government of India

Team Member Indian Scientific Expedition to Arctic

JULY 2015

Organized by National Centre for Polar and Ocean Research, Government of India

SKILLS

- Environmental Toxicology and Occupational Health Management
- Environmental Biotechnology and Waste Management
- Environmental Chemistry, Analytical Techniques, and Instrumentation
- Statistics and Computer Applications in Environmental Science and Management
- Environmental Pollution and its control
- Environmental Laws, Policies, Information, Education and Communication
- Environment Management
- Remote Sensing and GIS
- Environmental Economics and Development
- Ecology and Environment Management
- Research and Analytical Methods in Environment Management
- Environmental Pollution Management
- Environmental Microbiology
- Inductively coupled plasma mass spectrometry (ICP-MS)
- Direct Mercury Analysis System (DMA)
- Fourier-transform infrared spectroscopy (FT-IR)
- Gas chromatography-mass spectrometry (GC-MS)
- Cold vapor atomic fluorescence spectroscopy (CVAFS)
- PCR Thermal Cycler and Gel Electrophoresis

LANGUAGES

English

(Full professional proficiency)

Hindi

(Full professional proficiency)

Malayalam

(Native)

COMPUTER PROFICIENCY

Microsoft office, SPSS Statistics, Clustal X, Bioedit, Mega

PUBLICATIONS

Chapter 15 - Potential of anaerobic bacteria in bioremediation of metal-contaminated marine and estuarine environment

JANUARY 2022

Microbial Biodegradation and Bioremediation. 2nd Edition Elsevier

Techniques and Case Studies for Environmental Pollution. 2022, Pages 305-326

Microplastic pollution in the surface sediment of Kongsfjorden, Svalbard, Arctic

JANUARY 2022

Marine Pollution Bulletin, Elsevier

Volume 173, Part A, 112986

Mercuric reductase gene (merA) activity in a mercury tolerant sulphate

DECEMBER 2021

**reducing bacterium isolated from the
Kongsfjorden, Arctic**

Polar Science, Elsevier

Volume 30, 100745

**Mercury in the sediments of
freshwater lakes in Ny-Ålesund, Arctic**

JULY 2020

Environmental Monitoring and Assessment 192(8):538,
Springer

Environ Monit Assess 192, 538

**Metal content in zooplanktons of two
Arctic fjords, Ny-Ålesund, Svalbard**

DECEMBER 2019

Environmental Nanotechnology Monitoring & Management,
Elsevier

Volume 12, 100251

**Polyphasic approach revealed
complex bacterial community
structure and function in deep sea
sediment of ultra-slow spreading
Southwest Indian Ridge**

JANUARY 2019

Ecological Indicators, Elsevier

Volume 96, Part 1, Pages 40-51

**Changes in morphology and
metabolism enable Mn-oxidizing
bacteria from mid-oceanic ridge
environment to counter metal-
induced stress**

MAY 2018

Journal of basic microbiology, Wiley

Volume 58, Issue 5, Pages 390-402

**Mercury tolerance and biosorption in
bacteria isolated from Ny-Ålesund,
Svalbard, Arctic**

JANUARY 2018

Journal of basic microbiology, Wiley

Volume 58, Issue 4, Special Issue: Functional diversity, Pages 286-295

**Effect of Heavy Metals (Pb, Cd, Cu) on
the Growth of Sulphate Reduction
associated Bacterium Clostridium
bifermentans Isolated from Cochin
estuary, Southwest coast of India**

SEPTEMBER 2015

International Journal of Marine Science, Bio Publisher, Canada

**CONFERENCES/SEMINARS
ATTENDED**

**International Conference on Frontiers
in Marine Science – Challenges and
Prospects (MARICON 2019) in Kochi,
India**

DECEMBER 16-20, 2019

School of Marine Science, Cochin University of Science and
Technology, Kerala, India

Presented one paper "Role of sulfate-reducing bacteria in the transport and
transformation of mercury in Arctic fjords- a study from Kongsfjord"

**National Conference on Polar Sciences
(NCPS-2019)**

AUGUST 20-22, 2019

National Centre for Polar and Ocean Research (NCPOR),
Ministry of Earth Sciences, Government of India

Presented one paper "Mercuric reductase gene (merA) in mercury tolerant Sulphate
reducing bacterium from the sediments of Kongsfjorden, Svalbard"

Global Organic Meet 2018

APRIL 22-24, 2018

Inter University Centre for Organic Farming and Sustainable
Agriculture, Mahatma Gandhi University, Kerala, India

Presented on paper "Distribution of Heavy metals in Pokkali fields: the salt marsh rice
ecosystem of Kerala, India"

**State Level Training cum Workshop
on Wetland Monitoring 2018**

MARCH 7-10, 2018

School of Environmental Sciences, Mahatma Gandhi
University, Kerala, India

Successfully completed the workshop

**Third International Conference on
Mass Spectrometry (ICMS 2017)**

DECEMBER 11-14, 2017

Inter University Instrumentation Centre (IUIIC) and School of
Environmental Sciences, Mahatma Gandhi University,
Kottayam, Kerala, India

Presented on paper "Heavy metal contamination in the sediments of Vembanad lake,
India- an ICP-MS approach"

**International Conference on
Photochemistry and its application
(ICPA-2017)**

NOVEMBER 10-13, 2017

Inter University Instrumentation Centre and School of
Environmental Sciences Mahatma Gandhi University,
Kottayam, Kerala, India

Presented one paper "Biosorption of Mercury by Metal Tolerant Bacteria Isolated From
Tundra Sediments, Ny-Ålesund"

**National Conference on Polar Sciences
2017 (NCPS2017)**

MAY 16-17, 2017

**National Centre for Polar and Ocean Research (NCPOR),
Ministry of Earth Sciences, Government of India**

Presented one paper "Mercury Reduction Potential of Bacteria Isolated from Melt Water Streams, Ny-Ålesund, Svalbard"

**29th KERALA SCIENCE CONGRESS
2017**

JANUARY 28-30, 2017

**Kerala State Council for Science Technology and Environment,
Government of Kerala**

Presented one paper "Heavy metal (Mercury, Cadmium, Copper and Zinc) tolerance of psychrophilic bacteria *Leifsonia rubra* strain MM16 isolated from Ny-Ålesund, Svalbard, Arctic"

**28th KERALA SCIENCE CONGRESS
2016**

JANUARY 28-30, 2016

**Kerala State Council for Science Technology and Environment,
Government of Kerala**

Presented one paper "Mercury tolerance of Sulphate Reducing Bacteria isolated from sediments of Cochin Estuary, South West Coast of India"