



Mishma Silvia Stanislaus, Ph.D.

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ACADEMIC BACKGROUND

Ph.D. in Biotechnology Aug, 2014 — July 2017
University of Tsukuba

M.Sc. in Bioresource Engineering Sep, 2012 — July 2014
University of Tsukuba

B.Sc. in Biotechnology June, 2009 — Mar, 2012
St. Joseph's College of Arts and Science

WORK EXPERIENCE

Indian Institute of Science (IISc) Dec, 2020 - Present
Research Associate

- Semi-technical role inclusive of data analysis and high-level report writing.
- Hydrogen characterization for fuel cell application as per ISO 14687-2019

Confederation of Indian Micro, Medium and Small Enterprise (CIMSME) May, 2020 — Dec 2020
Chief Global Communication Officer | Director R&D (Hon.)

- Responsible for creating and improving, networking among entrepreneurs in India and globally.
- Moderated more than 20 programs on various entrepreneurial aspects nationally and globally.

Diya – Human Resource and Rural Development Trust April, 2018 — April 2019
Head – Research & Project Consultant

- Conduct surveys and train rural women in small-skilled labor.
- Provide advice on SDG projects and assist in writing proposals.

PUBLICATIONS

Enhanced bio-methane production from ammonium - rich waste using eggshell and lignite modified zeolite (ELMZ) as a bio-adsorbent during anaerobic digestion, *Process Biochemistry*.

<https://doi.org/10.1016/j.procbio.2019.03.001>

Improvement of biohydrogen production by optimization of pretreatment method and substrate to inoculum ratio from microalgal biomass and digested sludge, *Renewable Energy Journal*.

<https://doi.org/10.1016/j.renene.2018.05.022>

Efficient Photocatalytic Removal of RhB, MO and MB Dyes by Optimized Ni/NiO/TiO₂ Composite Thin films under solar light Irradiation, *Journal of Environmental Chemical Engineering*.

<https://doi.org/10.1016/j.jece.2018.04.017>

Wastewater treatment by sonophotocatalysis using PEG modified TiO₂ in a circular Photocatalytic-Ultrasonic system, Ultrasonic Sonochemistry.

<http://dx.doi.org/10.1016/j.ultsonch.2016.12.008>

Ipomoea aquatica as a new substrate for enhanced biohydrogen production by using digested sludge as inoculum, Energy Journal.

<http://dx.doi.org/10.1016/j.energy.2016.12.042>

A novel P/Ag/Ag₂O/Ag₃PO₄/TiO₂ composite film for water purification and antibacterial application under solar light irradiation, Science of the Total Environment Journal.

<http://dx.doi.org/10.1016/j.scitotenv.2016.10.170>

Strategy of mitigating ammonium-rich waste inhibition on anaerobic digestion by using illuminated bio-zeolite fixed-bed process, Bioresource Technology.

<http://dx.doi.org/10.1016/j.biortech.2016.09.053>

Development of a bio-zeolite fixed-bed bioreactor for mitigating ammonia inhibition of anaerobic digestion with extremely high ammonium concentration livestock waste, Chemical Engineering Journal.

<http://dx.doi.org/10.1016/j.cej.2015.06.024>

CERTIFICATIONS

Global and German Business Etiquette and Behavior

Knigge Akademie Indien

Bangalore, India

Model UN Trainer

United Nations Department of Public Information

Tokyo, Japan

PTE Academic (Pearson Test of English Academic) Trainer

PTE Academic

Bangalore, India

Digital Marketing

Online Google Platform

Online

Solar Energy (PV) System

Ministry of Micro, Small and Medium Enterprises Development Institute

India

PROFESSIONAL ACTIVITIES

UNADAP

Consultant, Head - Research (Volunteer)

June, 2018 - Oct, 2018

- Created an online presence for the organization through Social Media Marketing

Sea Bank Corporation

Intern

Aug, 2017 - Dec, 2017

- Set-up a new market and business model for the start-up company

Japan University English Model United Nations

Delegate & Chairperson

Dec, 2012 - June, 2017

AWARDS

Dean's Outstanding Research Award – 2017, University of Tsukuba	Tsukuba, Japan
Outstanding Presentation Award – 2016, Chungnam National University	Daejeon, South Korea
Outstanding Presentation Award – 2015, University of Tsukuba	Tsukuba, Japan
Outstanding Presentation Award – 2014, China University of Geosciences	Beijing, China

SKILLS

Hard Skills

Scientific Analysis
Scientific Writing
Microsoft Office Suit
Digital Marketing
Data Science (Basics)
Policy Making
Business Etiquette
English Language Training

Soft Skills

Active Listening
Public-Speaking
Intercultural Communication
Management

Languages

Native: English, Hindi, Tamil
Other: Japanese (N3), German (A2)

References provided on request