

Dr. Nanthini Sahaya Victoria, Ph.D.

Environmental Sciences & Sustainability | Environmental Microbiology | Coastal & Marine Pollution

PROFESSIONAL PROFILE.

Faculty member with over seventeen years of teaching experience in Biology, Life Sciences (including Zoology, Microbiology, Physiology, and Ecology), and Environmental Management. Holds a Ph.D. in Zoology with specialization in **environmental microbiology, coastal pollution, and sustainability-related research**. Experienced in undergraduate and postgraduate teaching, curriculum development, and interdisciplinary research, with publications in internationally indexed Elsevier journals.

RESEARCH INTERESTS

- Environmental & Marine Microbiology
- Coastal and Marine Pollution
- Environmental Bio-monitoring
- Public Health and Environmental Sustainability
- Environmental Impact Assessment
- Coastal Ecosystem Management
- Environmental Education

ACADEMIC QUALIFICATIONS

- **Ph.D. Zoology (2025)**
Manonmaniam Sundaranar University, India
Thesis: Bio-monitoring of Fecal Indicator Bacteria and Molecular Characterization of Biomarker Genes in Coastal Waters of Cape Comorin

Selected Ph.D. Coursework (Doctoral Level):

- Pollution and Toxicology
- Marine Bioresources: Utilization, Threats and Management

- **M.Phil. Zoology (2004)** – Manonmaniam Sundaranar University
- **M.Sc. Zoology (2001)** – Manonmaniam Sundaranar University
- **B.Ed. Science (2002)** – University of Madras

TEACHING EXPERIENCE

- **Biology & Environmental Management Teacher (IGCSE, IAL)**
(Sacred Heart School, Bahrain (2007–2015; 2024–Present))
- **Guest Lecturer (PG & UG – Zoology / Biology)**
Vivekananda College, India (2019–2020; 2024)
- **Instructor – Diploma in Preschool Teacher Education**
St. Mary's Community College, India (2002–2005)



CONTACT

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LANGUAGES

English

Tamil

Malayalam

COURSES TAUGHT

Zoology, Microbiology, Ecology, Environmental Biology, Evolution, Physiology, Research Methodology, Environmental Management, IGCSE & IAL Biology

PUBLICATIONS (PEER-REVIEWED)

- Victoria, N.S. (2022). *Assessment of sewage impact on coastal pollution and distribution of faecal pathogenic bacteria with reference to antibiotic resistance*. **Marine Pollution Bulletin** (Elsevier, Scopus). DOI: 10.1016/j.marpolbul.2021.113123
- Victoria, N.S. (2024). *Spatial distribution of faecal indicator bacteria around the Kanyakumari coast*. **Regional Studies in Marine Science** (Elsevier, Scopus). DOI: 10.1016/j.rsma.2024.103704
- Victoria, N.S. (2024) Antibacterial Activity of Chitosan on Faecal Indicator Bacteria Isolated from Sewage Outfall Nearby Kanyakumari Coast. **Journal of Advanced Zoology**. DOI: 10.53555/jaz.v45i2.4021

ACADEMIC LEADERSHIP & ADMINISTRATION

- Leadership roles including Principal-in-Charge and Vice Principal responsibilities
- Oversight of faculty coordination, academic operations, and quality assurance
- Strategic guidance in curriculum implementation, program development, and academic policy

CURRICULUM & ACADEMIC CONTRIBUTIONS

- Course design, planning, and delivery aligned with program learning outcomes
- Integration of sustainability concepts into biology and environmental science curricula
- Student mentoring, academic advising, and research supervision
- Use of inquiry-based, problem-based, and case-study-driven teaching approaches

RESEARCH & ACADEMIC SKILLS

Environmental sampling; microbiological and molecular laboratory techniques; data analysis; scientific writing; curriculum development; quality assurance; interdisciplinary collaboration