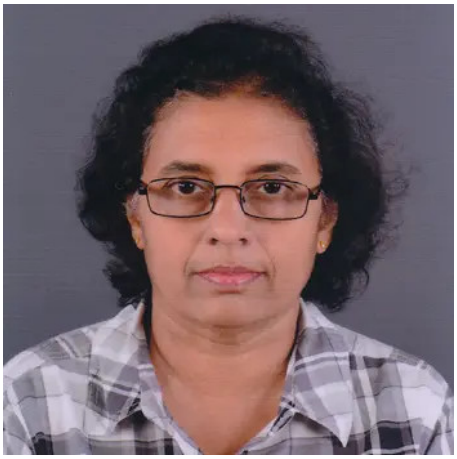
Department of Zoology

Faculty of Science / University of Peradeniya



Prof. Sudharma .K. Yatigammana (nee Makuloluwa)

B.Sc., M.Sc. (Perad.), Ph.D. (Queens University, Canada)

Professor

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+94 767444632

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About Me

My research and teaching is multidisciplinary in nature and emphasizes the necessity for protecting the environment. In addition, my interests in academia highlights how the environment can be used for developing the economy of a country especially through nature conservation and ecotourism

Higher Education Qualifications

PhD

Queen's University, Kingston, Ontario, Canada
Canada
(2004)

MSc

University of Peradeniya - Sri Lanka
Sri Lanka
(1998)

BSc

Zoology Special, 1994. First Class Honors University of Peradeniya - Sri Lanka
Sri Lanka
(1994)

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Awards, Scholarships, Memberships & Fellowships

- Dean’s Award for academically exceptional student (Queen’s University, Kingston Canada) - 2004
- Commonwealth Scholarship offered by the Government of Canada - 1999-2004
- University Scholarship for meritorious performance at the final examinations (University of Peradeniya)
  University Scholarship 1997 for best results in Zoology - 1994
- Invitation Fellowship for research in Japan, awarded by the Japan Society for the Promotion of Science (JSPS) 2012
- Life member of Canadian Limnologists Association

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Positions Held

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- 2023-to date Member of the Board of Management of the Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka.- (2023-to date)
- Coordinator, B.Sc Special Degree Programme in Environmental Science offered by the Faculty of Science, University of Peradeniya, Sri Lanka.- (2017-to date)
- Chairperson, Board of study in Environmental Science, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2026- to date)
- Member, Board of study in Environmental Science, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2008- to date)
- Chairperson of the 7th -10th International symposium on “Water Quality and Human Health: Challenges ahead” Organized by the Postgraduate Institute of Science, University of Peradeniya Sri Lanka- (2019-2025)
- Co-coordinator, Hybrid workshop on “Microbes without borders” Organized in collaboration with Faculty of Veterinary Medicine, Yamaguchi University, Japan and Board of study in Environmental Science, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2025)
- Co-coordinator, Workshop on “Study in Japan for advancing science and fostering international collaborations” Organized in collaboration with the IDEC institute, Hiroshima University Japan and Board of study in Environmental Science, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2025)
- Coordinator and resource person, M.Sc programme on Biodiversity Ecotourism and Environment Management, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2008 -2021)
- Head, Department of Zoology University of Peradeniya, Sri Lanka- (2016-2021)
- Member of the Board of Management of the Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2016-2021)
- Chairperson, Board of study in Zoological Sciences, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2016-2021)
- Co-coordinator, Faculty Subcommittee, B.Sc Special Degree Programme in Environmental Science offered by the Faculty of Science, University of Peradeniya, Sri Lanka- (2017-2020)
- Coordinator and resource person, M.Sc/Diploma in Applied Epidemiology Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka.- (2010 - 2020)
- Coordinator and member of the organizing committee of the 1st -6th International symposium “Water Quality and Human Health: Challenges ahead” Organized by the Postgraduate Institute of Science, University of Peradeniya, Sri Lanka.- (2012-2018)
- Chairperson, International Conference on “Chronic Kidney Disease of Unknown Etiology: Current Aspects and Future Prospects” organized by the Faculty of Science, University of Peradeniya, Sri Lanka in collaboration with the Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka- (2018)
- Chairperson, Faculty Subcommittee, B.Sc Special Degree Programme in Environmental Science offered by the Faculty of Science, University of Peradeniya, Sri Lanka- (2014-2017)
- Coordinator and member of the organizing committee of the Young Scientists Meeting on “Effect of climate change on biodiversity” Jointly Organized by the Boards of study in Zoological Sciences and Environmental Science, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka in Collaboration with The World Academy of Science (TWAS) - Regional Office for Central & South Asia (ROCASA), Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India- (2017)
- ...

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My Teachings

- BIO1162: Introductory Environmental Biology
- ENM511: Environmental Biology
- ENM514: Tourism and Ecotourism in Sri Lanka
- ENM516: Promotion of Ecotourism
- ENM521: Environment Management, and Sustainable Development
- ENM523: Pollution of Environment and Pollution Management
- ENM527: Sri Lanka’s Ecotourism Resource Base
- ENS3013: Concepts in Environmental Science
- ENS3122: Wetlands and Their Exploitation
- ENS4912: Research Methodology & Scientific Writing
- ENS515: Water Resources and Water Pollution
- ZLE504: Environmental Epidemiology
- ZOO2232: Animal Ecology
- ZOO3312: Limnology & Wetland Ecology
- ZOO3342: Ecotourism
- ZOO4063: Environmental Biology

Research Interests (Research Fields/ Projects)

Limnology, paleolimnology and environmental predictions using biological indicators

Ongoing Research and Projects

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The Bird 10,000 genome (B10K) project- Island wide survey on birds (excluding wildlife protected areas

Impact of humans and predators on ecology and conservation challenges of Axis deer in two protected areas of Sri Lanka

Comparative Study of Water Quality and Sediment Characteristics of Meda Ela and Sarasavi Oya: Mahaweli Tributaries, Sri Lanka

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Key Publications

Lake and Reservoir Management - (2025)

Ecological risk assessment of heavy metal pollution in reservoir sediments from major climatic zones of Sri Lanka

Environ Geochem Health - (2022)

Major and trace elements in rice paddy soils in Sri Lanka with special emphasis on regions with endemic chronic kidney disease of undetermined origin

Tropical Ecology - (2019)

Distribution of diatom assemblages in the surface sediments in Sri Lankan reservoirs located in the main climatic regions and potential of using them as environmental predictors

Journal of Water and Health - (2018)

Arsenic, cadmium, lead, and chromium in well water, rice, and human urine in Sri Lanka in relation to chronic kidney disease of unknown etiology

Lakes and Reservoirs: Research and Management - (2017)

Cladocera assemblages from reservoirs in Sri Lanka and their relationship to measured limnological variables

Ceylon Journal of Science - (2017)

Distribution of *Cylindrospermopsis raciborskii* (Cyanobacteria) in Sri Lanka

Environmental Forensics - (2017)

Potential risk of drinking water to human health in Sri Lanka.

Fundam. Appl. Limnol. - (2017)

Detecting recent limnological changes in two ancient reservoirs from Sri Lanka's dry zone using Cladocera

Fundam. Appl. Limnol. - (2016)

Physical and chemical characteristics of ancient and recent reservoirs of Sri Lanka. 3

J. Env. Sci. & Health. (Part B) - (2016)

Use pattern of pesticides and their predicted mobility into shallow groundwater and surface water bodies of paddy lands in Mahaweli river basin in Sri Lanka.

Conferences

Nothing to show under this subheading !!!

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My Publications

Please goto the website.

https://sci.pdn.ac.lk/zoology/staff/Sudharma-Yatigammana

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