

SACHINI PREMARATHNE

Lecturer (Probationary) in Soil Science

Department of Soil Science,
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<https://scholar.google.com/citations?user=NwjsmqoAAAAJ&hl=en>

Introduction

I am an agriculture graduate with a strong background in agriculture-related disciplines, especially in the field of environmental soil science as well as with strong leadership and decision-making abilities, along with a knack for adapting to new work environments. As an enthusiastic and motivated individual, I bring a solid foundation in both theoretical and practical knowledge, coupled with a passion for research.

Personal Information



Full Name: Hewawasam Perukandage Sachini Ruwindika Premarathne
Nationality: Sri Lankan
Date of Birth: 28/10/1997
Permanent Address: 7B/2, Maitipe 3rd Lane, Galle, 80000, Sri Lanka

Education



Master (Reading) in Environmental Soil Science
Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka

- 2025 March to date



BSc (Hons) in Agricultural Technology and Management
University of Peradeniya, Sri Lanka

Faculty of Agriculture

- First Class Honors (Final GPA 3.76/4.00)
- Specialized in Soil and Environment
- 2019 – 2024



Other Qualifications

- Computer Literacy – Open University, Sri Lanka

Teaching Experience



Teaching Panel Member of Soil Fertility and Plant Nutrition course and Sustainable Soil Fertility Management course - 2025 December to date



Coordinating practical sessions for second year and third year undergraduates - 2025 Dec. to date



Teaching Assistant in Undergraduate Practical
University of Peradeniya, Sri Lanka

Department of Soil Science, Faculty of Agriculture

- Soil Resource and Ecosystem (SS 1101)
- Properties and Functions of Soil (SS 1201)
- Soil Fertility and Plant Nutrition (SS 2101)
- Management of Soils of Sri Lanka (SS 3101)
- Soil Microbiology (SS 3203)
- Soil Chemistry (SS 4101)
- 2024 April – 2025 November

Employment



Lecturer (Probationary)
University of Peradeniya, Sri Lanka

Department of Soil Science, Faculty of Agriculture

- 2025 December to date



Temporary Demonstrator
University of Peradeniya, Sri Lanka

Department of Soil Science, Faculty of Agriculture

- 2025 April – 2025 November



Temporary Lecturer
University of Peradeniya, Sri Lanka

Department of Soil Science, Faculty of Agriculture

- 2024 April – 2025 April



Intern
Dole Lanka (Pvt) LTD, Sri Lanka

Buttala, Wekadawewa Project

- 2023 December – 2024 March

Language Skills



English Language – Intermediate

IELTS Overall Band 7

Listening – 8.5

Reading – 7

Writing – 6.5

Speaking – 6



Sinhala Language – Mother tongue

Research Interests

-  Plant Nutrient Dynamics
- Soil Biogeochemistry
- Nutrient Cycling
- Soil Fertility Management

Soft Skills

-  Analytical Skills
- Communication Skills
- Leadership Skills
- Team Work
- Time Management
- Interpersonal Skills

Research Publications

Full Paper Publication

H.P.S.R., Premarathne, Dandeniya W.S., and Haputhanthri T.R. (2024). Evaluating the Impact of Integrated Nutrient Management Practices on Land Productivity, Crop Residue Decomposition and Abundance of Soil Organisms in a Banana Plantation in Sri Lanka. *Asian Journal of Soil Science and Plant Nutrition*, 10 (4):355-70. <https://doi.org/10.9734/ajsspn/2024/v10i4410>

Dandeniya, W. S., Dias, A. M., Madushani, I., **Premarathne, H. P. S. R.**, & Dharmakeerthi, R. S. (2025). Efficacy of phosphate solubilizing bacteria in mobilizing soil P for supporting rice cultivation is determined by the soil moisture management strategy. *Soil Science and Plant Nutrition*, 1–18. <https://doi.org/10.1080/00380768.2025.2550769>

A full paper has been submitted for Tropical Agriculture Research Journal on “Investigating the concentrations of amoxicillin, ciprofloxacin, sulfamethoxazole and trimethoprim for culture-based monitoring of antibiotic resistance in soil bacteria” on 11th June 2026

Abstract Publications

Premarathne H.P.S.R., Dandeniya W.S., and Haputhanthri T.R., 2023, Decomposition of Crop Residues and Diversity of Soil Microorganisms as Affected by Different Nutrient Management Practices in a Banana Plantation. Proceedings of the 9th Faculty of Agriculture Undergraduate Research Symposium held in Faculty of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka, 26th March, 2024 pp.19.

Premarathne H.P.S.R., Dandeniya W.S., and Haputhanthri T.R., 2024, The Effect of Combined Use of Chemical Fertilizers and Poultry Manure on Decomposition of Banana Crop Residues under Field Conditions. Proceedings of the Young Scientists' Conference on Multidisciplinary Research - 2024, Young Scientists' Association, National Institute of Fundamental Studies, Sri Lanka 27th November, 2024 pp. 7.

Premarathne H.P.S.R., Dandeniya W.S., Kamburugoda K.K.C.J., and Thaboshini S., 2025, Assessing the Resistance Levels of Soil Bacteria for Amoxicillin, Ciprofloxacin, Sulfamethoxazole and Trimethoprim. Proceedings of the 37th Annual Congress of Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka, 21st November, 2025 pp 11.

Academic Achievements



F.S.C.P. Kalpage Gold Medal for Academic Excellence in Soil Science - 2024

Faculty of Agriculture, University of Peradeniya



University Prize for Academic Excellence for Final Examination in B.Sc. (Honors) Agricultural Technology and Management degree - 2024

Faculty of Agriculture, University of Peradeniya



Best result of the Department of Soil Science - 2024

Faculty of Agriculture, University of Peradeniya



3rd Place in research videography competition at Faculty of Agriculture undergraduate Research Symposium (FAuRS) - 2023

University of Peradeniya



Nominated from the Department of Soil Science for a Poster Presentation at Faculty of Agriculture undergraduate Research Symposium (FAuRS) - 2023

University of Peradeniya



Delivered a Speed Talk Presentation at the Proceedings of Young Scientists' Conference on Multidisciplinary Research, 2024

National Institute of Fundamental Studies, Kandy, Sri Lanka



Delivered an Oral Presentation at the 37th Annual Congress of Postgraduate Institute of Agriculture, 2025

University of Peradeniya

Leadership Experience

- ☆☆  **Women's Carrom team Captain – 2022, 2023**
University of Peradeniya
- ☆☆  **Women's Carrom team Vice-captain - 2021**
University of Peradeniya
- ☆☆  **Junior Treasurer, Soil Science Society - 2023**
Faculty of Agriculture, University of Peradeniya
- ☆☆  **Sub-editor, Agriculture Faculty Journalism and Media Society - 2021**
University of Peradeniya
- ☆☆  **Committee member, Robobots Club - 2021**
Faculty of Agriculture, University of Peradeniya
- ☆☆  **Committee member, Agriculture Faculty English Literary Association - 2021**
University of Peradeniya

Volunteer Experience

-  **Program Assistant in School Indoor Air Quality (IAQ) Promotion and Implementation Program in Sri Lanka**
Education University of Hong Kong and University of Peradeniya
 - 2024 August – 2024 September
-  **Analyzing Plant and Soil samples received by the analytical service of Department of Soil Science**
 - 2024 April – 2025 November

References



Warshi S. Dandeniya Ph.D.

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Department of Soil Science,
Faculty of Agriculture,
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Other Achievements



University of Peradeniya Full Colors Insignia for Carrom – 2022, 2023



Sri Lanka Universities Sports Association (SLUSA) Colors Insignia for Carrom - 2023



Women's Carrom Championship at Sri Lanka University Games - 2023



Women's Carrom Championship at Inter University Games - 2022



1st Place at Leo battle of minds single carrom tournament, University of Kelaniya - 2023



2nd place in social media poster or flyer design at Inter University Students' Competition, University of Ruhuna - 2022



Finalist under the university category at Sri Lanka's first ever Agriculture and Technology based hackathon, Rotaract Club of University of Kelaniya - 2021