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PERSONAL INFORMATION	**Name in Full:** Warshi Shamila Dandeniya **Date of Birth**: December 17, 1980 **Gender:** Female **Marital status:** Married **Citizenship**: Sri Lanka

EMPLOYMENT	**Head/ Department of Soil Science** (2017-2019) **Senior Lecturer in Soil Science at University of Peradeniya** *2012 - present* **Lecturer in Soil Science at University of Peradeniya** *2007 - 2012* **Assistant lecturer at the Department of Soil Science, Faculty of Agriculture, Peradeniya** *2005 – 2007*

RESEARCH INTERESTS	Study the effects of soil microbial community dynamics on nutrient use efficiency in cropping systems Understand the effects of agricultural practices on soil microbial communities using tools in microbial ecology and genomics Improve carbon sequestration in marginal agricultural soils in Sri Lanka

EDUCATIONAL QUALIFICATIONS	**PhD. Cornell University, USA** Soil science Major field: soil science Minor fields: Microbiology, Crop Science *December 2010* Dissertation: Water-saving Rice Farming Affects Nitrifiers in Soil **M Phil. University of Peradeniya, Sri Lanka** Soil Science *August 2007* Thesis: Diversity of microbial communities associated with rhizosphere of improved and traditional rice varieties grown in Sri Lanka **B.Sc. (Hons) University of Peradeniya, Sri Lanka** Agriculture *March 2005* Thesis title: Microbiological Properties as an Indicator of Soil Quality of Vegetable – Vegetable Cropping Systems of Nuwara Eliya

PROFESSIONAL QUALIFICATIONS

Vice-president (2015/2016) and an executive committee member (2011 to present) of Soil Science Society of Sri Lanka
Secretary (2016), a Board member (2014-present) and a teaching panel member of the Board of Study in Soil Science of Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
Thesis examiner at Postgraduate Institute of Science and Postgraduate Institute of Agriculture.
Coordinated workshops on "Environmental Impact of Potentially Toxic Heavy Metals in Soils" in 2013 and "Current trends of Crop Nutrient Management in Sri Lanka" in 2012 at University of Peradeniya.
Served as a resource person in a number of farmer training programmes, workshops for Agriculture Research Officers and Instructors, and laboratory skill development programmes for technical officers.
Serving in various capacities at faculty subcommittees (Curriculum Development Committee, English Language Teaching Committee, Student Welfare and Advisory Committee, Time-tabling Committee) to promote undergraduate education in Faculty of Agriculture, University of Peradeniya.
Member of Soil Science Society of America (2007 – present)
Member of Agronomy Society of America (2007 – present)

RESEARCH GRANTS RECEIVED

Deputy Principal Investigator and a team leader of Target Orient Research (TOR project funded by National Research Council of Sri Lanka. Principal Investigato R.S. Dharmakeerthi
Amount: LKR, 49.9 million Duration: 2016 - 2021
Theme: Development of eco-friendly technologies to minimize inorganic fertiliz usage while maintaining adequate productivity and improving long term soil fert

The recipient of investigator driven research grant from National Research Coun Sri Lanka.
Title: Developing botanical nitrification inhibitors to reduce nitrogen fertilizer w in vegetable crop cultivation
Amount: LKR 3.4 million Duration: 2016 - 2019

Member of research team of the project funded by Sri Lanka Council for Nationa Agriculture Research Policy.
Theme: Development of detailed spatial inventory of soil phosphorus andorganic carbon stocks at sub-catchment scale
Team: Dr. W.A.U. Vitharana, **Dr. W.S. Dandeniya**, Dr. A.M.C.P.K. Attanayake W. Balasooriya
Amount: LKR 1.07 millionDuration: 2017-2018

University research grant 2016
Title: Assessing the contribution of nitrification for fertilizer-N losses from agricultural soils
Amount: LKR785,000 Duration: 2016-2018

University research grant - 2013
Title: Antibiotic resistant bacteria in poultry manure and intensively cultivated Ultisols
Amount: LKR 76,000 Duration: 2013-2014

International Foundation for Science (IFS) Grant – 2012

Title: Resistance of Microbial Communities in Agricultural Soils to Tetracycline Following Application of Poultry Manure

Amount: USD11,700 Duration 2012 - 2016

University Research Grant (University of Peradeniya) – 2011

Title: Evaluating the ability of rice to effectively suppress soil nitrification

Amount: LKR 75,000Duration: 2011-2012

Research project team:

World bank funded grant to support postgraduate research in Sri Lanka: Higher Education for Twenty first Century – Quality and Innovative Grants - Window 3 – 2012 to present

Project team: Prof. W.A.J.M. De Costa (Team Leader), Prof. S.P. Indraratne, Dr. R.M. Fonseka, Dr. L.D.B. Suriyagoda, **Dr. W.S. Dandeniya**, Dr. D.M. De Costa and Dr. K.S. Hemachandra

Theme:Climate resilience of upland cropping systems through adaptive crop and soil management and appropriate integrated pest management

Student Supervision

Major supervisor for following students
A.A. Mariaselvam – Completed MPhil in October 2015
E.M. Herath – Completed MPhil in December 2016

Co-supervisor in thesis committee of following students
J.A.S. Chathurika – Completed PhD in March 2016
R. Eeswaran – Continuing MPhil research
S.H.J.A. Begam – Continuing MPhil research
Pavani Dissanayake – Continuing MPhil research

I have supervised the directed study of seven students who enrolled for M.Sc. in Environmental SoilScience degree at Postgraduate Institute of Agriculture.
M.W.C. Lalanthi – completed 2014
S. Ajanthini – completed 2014
D.M.N. Senanayake – completed 2015
U. Wijerathne – completed 2015
A. Gayathri – completed 2015
S. Kirupakaran – completed 2015
K. Mathaniga – continuing directed study research

Inadittion I have supervised more than ten undergraduate students in their final year research project.

RESEARCH PUBLICATIONS

Journal articles

Dandeniya, W.S. 2014. The response of selected rice varieties to partial nitrate nutrition and their ability to suppress nitrification. *Journal of Soil Science Society of Sri Lanka*. 24. 9-14.

Amarawansa, R.P.U.I.,Balasooriya, B.L.W.K.,**Dandeniya, W.S.**,Suganthan,B. and Dasanyaka, T. 2017. Identification of Cyanobacteria Inhabiting Paddy Fields in Intermediate Zone and Dry Zone of Sri Lanka. Tropical Agricultural Research.*Accepted.*

Chathurika, J.A.S.,Kumaragamage, D., Zvomuya, F., Akinremi, O.O., Flaten, D.N., Indraratne, S.P., **Dandeniya, W.S.** 2016. Woodchip biochar effects on selected soil fertility parameters in two Chernozemic Soils. Canadian Journal of Soil Science. 96: 472-484.

Chathurika, J.A.S., Indraratne, S.P, **Dandeniya, W. S.** and Kumaragamage, D. (2015). Beneficial Management Practices on Growth and Yield Parameters of Maize (*Zea maize*) and Soil Fertility Improvement. Tropical Agricultural Research. 27 (1): 59-74.

Herath, E.M., Palansooriya, A.G.K.N., **Dandeniya, W.S.**, Jinadasa, R.N. 2016. An assessment of antibiotic resistant bacteria in poultry litter and agricultural soils in Kandy District, Sri Lanka. *Tropical Agricultural Research Journal*. 27(4): 389-398.

Eeswaran, R., De Costa, W.A.J.M., De Costa, D.M., **Dandeniya, W.S**., Sivakumar, S. and Suriyagoda, L.D.B., 2016. Evaluation of a climate change-adaptive, eco-friendly agronomic package for potato (Solanum tuberosum L.) cultivation in the farmer fields of the Jaffna district of Sri Lanka. *Tropical Agricultural Research*, *27*(2). pp. 190-202.

Mariaselvam, A.A., **Dandeniya, W.S**., Indraratne, S.P. Dharmakeerthi, R.S. 2015. Beneficial Nutrient Management Practice for Improving Maize (*Zea mays*) Yield in a Tropical Entisol. *Tropical Agricultural Research Journal*. Accepted.

Vasujini, P., **Dandeniya, W.S.**, Dharmakeerthi, R.S. 2014. Assessing the quality of biochar produced from coconut husk waste. *Journal of Soil Science Society of Sri Lanka*. 24. 21-28.

Herath, E.M. **Dandeniya, W.S.**, Samarasinghe, A.G.S.I., Bandara, T.P.M.S.D., Jinadasa, R.N. 2015. A preliminary investigation on methods of reducing antibiotic resistant bacteria in broiler litter in selected farms in mid country Sri Lanka. *Tropical Agricultural Research Journal*. 26 (2). 412-417.

Mariaselvam, A.A., **Dandeniya, W.S**., Indraratne, S.P. Dharmakeerthi, R.S. 2013. High C/N materials mixed with cattle manure as organic amendments to improve soil productivity and nutrient availability. *Tropical Agricultural Research Journal*. 25(2): 201-213.

Chathurika, J.A.S. Indraratne, S.P., **Dandeniya, W.S.** 2013. Site Specific fertilizer recommendations for maize (zea mays l.) grown in Reddish Brown Earth and Reddish Brown Latasolic soils. *Tropical Agricultural Research Journal*. 25(3): 287-297.

Dandeniya, W.S., Thies, J. E. 2012. Rhizosphere nitrification and nitrogen nutrition of rice plants as affected by water management. *Tropical Agricultural Research Journal*. 24 (1): 1-10.

Dandeniya, W. S., Rajapaksha, R.M.C.P. 2008. Copper availability and

selective microbiological properties of an intensively cultivated ultisol in Nuwara Eliya*. Journal of the National Science Foundation of Sri Lanka.* 36 (4): 307-314.

Conference proceedings

Dandeniya, W.S. Attanayake, R.N. "A comparison of soil fungal communities of dry-zone and wet-zone forests using a metagenomic approach." Proceedings of the 1st Annual International Conference of Bioscience and Biotechnology. 12th- 14th January (2016). Colombo, Sri Lanka.

Dandeniya, **W. S.,** Herath, E. M., Samarasinghe, I., Jinadasa, R.N. 2014. Effect of tetracycline and enrofloxacin on soil microorganisms inhabiting an intensively cultivated Ultisol. The proceedings of One Health International Conference. University of Peradeniya, Sri Lanka (Sept. 5-6).

Dandeniya, W.S., Dissanayake, R.J., Ranasinghe, C.N., Thalagoda, U., Thalagoda, S. 2014. Tea green-leaf yield as affected by soil fertility: A case study with small-holder tea planters in Kegalle and Kandy districts in Sri Lanka. *20th World congress of Soil Science.* Jeju, Korea (June 8-13).

Chathurika, J.A.S., Indraratne, S.P., **Dandeniya, W.S.**, Kumaragamage, D. 2014. Amendments to improve soil fertility and increasing maize (*Zea maize*) yield in mid country Sri Lanka. *ASA-CSSA-SSSA International annual meeting.* Long Beach, California (Nov. 2-5). Accepted for oral presentation.

Dandeniya, W.S., Rajapakshe, R.M.C.P. 2013.Bacteria with potential plant growth-promoting abilities in the root environment of selected rice varieties grown in Sri Lanka. *The Proceedings of National Symposium on Soil Bio Diverstiy-2013, Ministry of Environment and Renewable Energy, Sri Lanka*. 120-126.

Dandeniya, W.S. 2013. Evaluating the Ability of Rice to Effectively Suppress the Activity of Soil Nitrifiers. *The Proceedings of National Symposium on Soil Bio Diverstiy-2013, Ministry of Environment and Renewable Energy, Sri Lanka*. 144-146.

Vasujini, P., **Dandeniya, W.S.**, Dharmakeerthi, R.S. 2014. An assessment of the quality of biochar produced from coconut husk waste. P*roceedings of the Peradeniya University International Research Sessions*, Sri Lanka (July 4-5, 2014). Vol. 18.

Mariaselvam, A.A., **Dandeniya, W.S.,** Indraratne, S.P., Dharmakeerthi, R.S. 2014.Growth and yield of maize as affected by organic amendments with potential for soil fertility improvement. *Proceedings of the Peradeniya University International Research Sessions*, Sri Lanka (July 4-5, 2014). Vol. 18.

Ajanthini, S., **Dandeniya, W.S.** 2013. Soil carbon pools as affected by the history of agricultural land-use of calcic red latosols in Sri Lanka. PURSE 2012. University of Peradeniya, Sri Lanka (July 4th). pp. 2.

Chathurika, J.A.S., Indraratne, S.P., **Dandeniya, W.S**. 2013. Soil fertility constraints identified for a low productive Alfisol at Mahailuppallama. *PURSE 2012*. University of Peradeniya, Sri Lanka (July 4th). pp.166

Wijerathna, Y.U.C., **Dandeniya, W.S.,** Mithrasena, Y.J.P.K. 2013. Does oxidizing power of roots affect the iron toxicity tolerance of rice? *PURSE 2012.* University of Peradeniya, Sri Lanka (July 4th). pp.167.

	Mariaselvam, A.A., **Dandeniya, W.S.,** Indraratne, S.P. Nutrient release from soil as affected by the composition of organic amendment*. PURSE 2012*. University of Peradeniya, Sri Lanka (July 4th). pp.168. Lalanthi, M.W.C., **Dandeniya, W.S.,** Chandrasiri, U. Do lowland rice varieties prefer ammonium or nitrate? *PURSE 2012*. University of Peradeniya, Sri Lanka (July 4th). pp.231. **Dandeniya, W.S.**, Thies, J.E. 2011. Nitrifiers in the rice rhizosphere as affected by soil moisture regime. Proceedings of the 10th International Conference of the East and Southeast Asia Federation of Soil Science Societies. Colombo, Sri Lanka (October 10-13). pp 311-312. **Dandeniya, W.S.,** Thies, J.E. 2010. Nitrification in rice soils as affected by changing the irrigation method. *ASA-CSSA-SSSA joint annual meeting.* Long Beach, California (Oct 31- Nov 4). **Dandeniya, W.S**., Thies, J.E., DiTommaso, A. 2009. Can allelopathic rice (*Oryza sativa*) effectively inhibit nitrification? *ASA-CSSA-SSSA joint annual meeting.* Pittsburgh, Pennsylvania (Nov. 1 - 5). **Book chapters** **Dandeniya, W. S.** (2011). Effective Academic Advising for Student Success. In U. Jayasinghe &A. Jayaweera (Eds.), Teaching Learning Assessment and Skills Development in Higher Education: Concepts and Applications (426-431). Staff Development Center: Wayamba University of Sri Lanka.
AWARDS	The recipient of following awards: • Best presenter in the session "Soil and water management" at the 24th annual congress of PGIA • McDonald/Musgrave graduate student recognition award, crop and soil sciences, Cornell (2009) • Best teaching assistant in the department of crop and soil sciences, Cornell (2008/2009) Gold medals received at University of Peradeniya (2001-2005) • Professor Kalpage gold medal for academic excellence in soil science • Golden jubilee gold medal for the most outstanding performance in the core program • Gold medal for the best performance in the subject of agribusiness management Received four scholarships and three prizes for academic performance and three Gold medals for sports during undergraduate studentship (2001-2005)

INTERNATIONAL TRAINING PROGRAMMES	Provided leadership to the "Biophysical environment" sub-group in the Student Multidisciplinary Applied Research Team (SMART) of the Cornell International Institute for Food, Agriculture and Development (CIIFAD), visited South Africa (2010) Participated in "Rice: Research to production" workshop at International Rice Research Institute in the Philippines (2008)