

GANILA NUWAN PARANAVITHANA

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E-Mail:ganila01@gmail.comgnpar@ou.ac.lk**Date of birth:** 31/07/1977**Civil Status:** Married

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EDUCATION:

Doctor of Philosophy in Environmental Science and Infrastructure Engineering: Saitama University of Japan (2016)

Master of Science in Environmental Pollution Control Engineering: University of Peradeniya, Sri Lanka (2012)

Bachelor of Science in Engineering specialized in Civil Engineering: University of Peradeniya, Sri Lanka (2004)

Summary of experiences

A Senior Lecturer at the Department of Civil Engineering, The open university of Sri Lanka. He earned his BSc.Eng in Civil Engineering and the Msc.Eng In Environmental Pollution Control Engineering from University of Peradeniya. Subsequently he obtained his PhD from Saitama University, Japan in 2016. He is a Sri Lankan expert in the areas of Irrigation Engineering, Environmental engineering and hydrology with a special focus on water management mechanisms and hydrological modeling. He has many years of technical and coordinating expertise in number of international organizations which includes Nippon Koei Company Ltd, Jica and IFAD. He has been serving as a Senior Academic since 2016 starting from the Faculty of Engineering of the south Eastern University of Sri Lanka and at the Faculty of Engineering of the Open University of Sri Lanka.

Work Experience

Period	Post held	Institute	Activities performed
01/11/2017-to date	Senior lecturer Grade II in Environmental and water resources engineering	Open University of Sri Lanka	Responsible for conducting course in environmental engineering, Mechanics of Fluids and Hydrology. Conduct research and experiments in environmental engineering and water resources engineering which includes slope stabilization using phytoremediation and coir gabions Consultancies during the period

			<p>Environmental consultant for IWWRMP project funded by world bank</p> <p>Environmental consultant for Udawalawe Right Bank Rehabilitation Project</p>
01/11/2016-31/10/2017	Senior Lecturer on contract basis in Environmental Engineering	South Eastern University of Sri Lanka	<p>Responsible to deliver two courses in environmental engineering in fundamentals and design</p> <p>Responsible for the lab development of the newly established department of civil engineering</p>
16/05/2016-31/12/2016	Consultant on monitoring and evaluation at Iranamadu Irrigation Development Project	United Nations International Fund for Agricultural Development (UN IFAD)	Project monitoring and evaluation of irrigation and environmental mitigation
14/9/2015-14/3/2016	Irrigation Design consultant at Iranamadu Irrigation Development project	Iranamadu Irrigation Development Project Kilinochchi	Design and supervision of infrastructure for sustainable bulk water allocation systems
1/10/2012-14/9/2015	Reading for PhD in Japan	Saitama University-Japan	Developing Permeable Reactive barriers to treat ground water pollutants using eco-friendly carbon sequestering material Biochar
1/05/2012-31/07/2012	Instructor at Engineering Education Unit	Faculty of Engineering, University of Peradeniya	Conduct during in Environmental education and awareness
01/05/2011-31/01/2012	Coordinator for Globally Important Agricultural	Central Engineering Consultancy Bureau(CECB)	Investigate the potential use of indigenous knowledge to mitigation issue in relevance to agricultural production

	Heritage Systems (GIAHS)		
21/07/2010-15/01/2011	Local Expert on Flood mitigation	For JICA under Nippon Koei Ltd. Team	Investigate and verify the developed flood mitigation plan for Kaluganga inundation area
01/03/2010-31/06/2010	Resident Engineer consultancy at Pallekelle International Cricket Stadium	State Engineering cooperation (SEC)	Supervision of constructing International cricket stadium which includes buildings, roads bridges and canals
01/07/2009-31/02/2010	Consultant on irrigation tank rehabilitation and environmental engineering	Evaluation Study on the Tank Rehabilitation Project in the Anuradhapura District – Plan, Sri Lanka	Irrigation cascade tank system evaluation of its technical aspects and progress
01/01/2009-31/06/2009	Construction Manger	Weerasooriya Builders(Pvt) Ltd	In charge of managing road projects
01/01/2007-31/12/2008	On-farm design and construction Engineer	JICA funded Walawe Left Bank Irrigation Extension Project in Nippon Koei Pvt.Ltd	Responsible for designing and implementation of irrigation reservoirs, irrigation canal networks, drainage canals In charge of implementing 200Ha of reforestation to improve catchment areas and biodiversity Drainage Canal embankment rehabilitation with phytoremediation techniques

01/03/2006-31/12/2006	Manager Engineering	Natural Resources Management Services (Pvt)Ltd.	Conducting Environmental Impact assessments for National projects in Sri Lanka Administration of stream flow measurement contracts
28/02/2006	Procurement Engineer	Davids and M Engineering (pvt).Ltd	Tender document preparation and bid document preparation
01/12/2004-31/12/2005	Environmental Engineer	Central Engineering Consultancy Bureau(CECB)- Diganna Base	Responsible for designing water supply systems and water treatment systems using phytoremediation methods such as constructed wetlands and anaerobic filters

Professional affiliations

- Associated Member of the Institute of Engineers Sri Lanka
- Associated Member of Green building Council of Sri Lanka

Language Proficiency

Language	Reading	Writing	Speaking
English	Excellent	Excellent	Excellent
Sinhala	Mother tong	Mother tong	Mother tong

Publications:
<p>Paranavithana, Ganila Nuwan, Samindi M. K Samarakoon, and Ramasundara Hettige Jayani Chathurika. "Analysis of Road Construction Waste Generation in Developing Economies: A Focus on Surfacing and Sub-Base Construction Projects in Sri Lanka." <i>Journal of Cleaner Production</i> 457 (June 10, 2024): 142465. https://doi.org/10.1016/j.jclepro.2024.142465.</p> <p>Arandara, K. P., Paranavithana, G. N., Priyadarshana, S. T., Pitawala, H. M. T. G. A., and Dissanayake, R., "Evaluation of Coconut Shell Biochar on Recycled Aggregate Concrete through Petrographic Studies." <i>Construction and Building Materials</i> 428 (May 17, 2024): 136342. https://doi.org/10.1016/j.conbuildmat.2024.136342.</p> <p>Paranavithana, G. N., Ranasinghe, R. S., Jayasundara, J. M., Harindra, H. W. and Ranasinghe, W. D., "Physical Modeling of Flow in the Ancient Inlet Sluice Barrel of Nuwara Wewa Reservoir, Sri Lanka." <i>Water Projects and Technologies in Asia: Historical Perspectives</i>, 2023, 263.</p> <p>Paranavithana, G. N., Arachchi, R. N. J. K., and Rathnayake, U., "Comparative Analysis of the Cumulative Yield from the Adjacent Catchment along the Ancient Minipe Left Bank Canal, Sri Lanka." <i>Journal of Infrastructure, Policy and Development</i> 7, no. 3 (November 23, 2023). https://doi.org/10.24294/jipd.v7i3.2165.</p>

Paranavithana, G. N., R. S. Ranasinghe, J. M. Jayasundara, H. W. Harindra, and W. D. Ranasinghe. "Physical Modeling of Flow in the Ancient Inlet Sluice Barrel of Nuwara Wewa Reservoir, Sri Lanka." *Water Projects and Technologies in Asia: Historical Perspectives*, 2023, 263.

Thilakarathna, W. A. H. R., Jayathilake, A. M. D. C. K., Kobbakaduwa, W. D. D. K., **Paranavithana, G. N.**, and Udamulla, K. M. L. A., "Soil Based Adsorption Media for Permeable Reactive Barriers to Adsorb Lead (Pb²⁺) & Cadmium (Cd²⁺)" 56, no. 1 (March 27, 2023): 123. <https://doi.org/10.4038/engineer.v56i1.7566>.

Arandara, K. P., Priyadarshana, S. T., **Paranavithana, G. N.**, and Dissanayake, R.. "A Review on Utilization of C & D Waste for Road and Pavement Construction in the International Context and Applicability of the Findings to Sri Lanka." In *Road and Airfield Pavement Technology*, 757–70. Lecture Notes in Civil Engineering. Cham: Springer International Publishing, 2022. https://doi.org/10.1007/978-3-030-87379-0_57.

Arandara, K. P., Priyadarshana, S. T., **Paranavithana, G. N.**, Mallick, R. B., and Dissanayake, R., "Evaluation of Elemental and Chemical Compositions of Recycled Concrete Aggregates Produced from the Cowam Center, Sri Lanka." In *ICSBE 2022*, 823–34. Lecture Notes in Civil Engineering. Singapore: Springer Nature, 2023. https://doi.org/10.1007/978-981-99-3471-3_56.

Thibbotuwawa, D.P.M.B., Thawishnee, V., Herath, H.M.E.J.B, Karunaratne, H.M.P.S., and **Paranavithana, G. N.**, "Model Study to Determine the Manning's Coefficient for Gabion Lining against Canal Erosion." *ENGINEER* 53, no. 04 (2020): 45–52.

Saito, R., Udayagee Kumarasinghe, **Paranavithana, G.N.**, and Saito, T., "Development of Permeable Reactive Barrier System Utilizing Locally Available Geo-and Bio-Waste," 2017. <https://scholar.google.com/scholar?cluster=4113527900244463805&hl=en&oi=scholar>.

Paranavithana, G. N., Kawamoto, K, Inoue, Y., Saito, T., Vithanage, M., Kalpage, C. S., and Herath, G. B. B. "Adsorption of Cd²⁺ and Pb²⁺ onto Coconut Shell Biochar and Biochar-Mixed Soil." *Environmental Earth Sciences* 75, no. 6 (March 11, 2016): 484. <https://doi.org/10.1007/s12665-015-5167-z>.

Maddumabandara C.M., Yatigamma S., **Paranavithana G.N.**, (2010), Scientific Validation of some Traditional Land and Water Management Practices under Village Tank Cascade systems, *Economic Review*, Vol. 36, NO 1&2, People's Bank Publication.

Non-related referees**Prof. C M Madduma Bandara**

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I do hereby declare that the above particulars furnished by me are true and correct to the best of my knowledge.

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Signature:



Date: 26/5/2024