

## CURRICULUM VITAE

### PERSONAL:

Name : Tennakoon Mudiyanseelage Nimal Wijyaratna  
Date and Place of Birth : 3<sup>rd</sup> June 1966, Colombo, Sri Lanka  
Address  
    Home : No. 1067/64, Pothuarawa Road, Malabe, Sri Lanka  
    Office : Dept. of Civil Engineering, Faculty of Engineering,  
            University of Moratuwa, Katubedda, Moratuwa, Sri Lanka  
            Email: nimalw@uom.lk  
Nationality : Sri Lankan  
Languages : Sinhala (mother tongue), English (excellent), Japanese (fair)  
Marital Status : Married

### EDUCATION:

Oct. 1997 – Sep. 2000 Yokohama National University, Yokohama, Japan  
Doctor of Engineering (Hydrodynamic Modelling)  
Sep. 1995 – Apr. 1997 Asian Institute of Technology, Bangkok, Thailand  
Master of Engineering (Riverine and Coastal Engineering)  
Dec. 1986 – Jul. 1993 University of Moratuwa, Moratuwa, Sri Lanka  
Bachelor of Science of Engineering (Civil Engineering)  
First Class Honours

### PROFESSIONAL QUALIFICATIONS:

Chartered Engineer  
Corporate Member of the Institution of Engineers, Sri Lanka

### EMPLOYMENT:

**Senior Lecturer** (Feb. 2012 – To date)  
Dept. of Civil Engineering, Faculty of Engineering, University of Moratuwa, Katubedda,  
Moratuwa, Sri Lanka

- Hydraulic Modeler; Feasibility study of Gampaha-Jaela Flood protection system, Lanka Hydraulic Institute for CRIP.
- Hydraulic Engineer; Feasibility Study of Kandakaduwa Diversion Structure in Mahaweli River, Lanka Hydraulic Institute for CRIP.
- Hydrologist; Peliyagoda- Mudun Ela flood mitigation project, Sri Lanka Land Reclamation and Development Corporation.
- Hydrologist/Drainage Engineer; Beliatta-Kataragama Railroad Project, SKILLS International.
- Hydrologist; Preliminary drainage designs of the railroad from Matara to Beliatta, Ministry of New Railroad developments, Sri Lanka.
- Drainage Engineer; Detailed drainage designs of Matara-Beliatta Railroad, Sri Lanka Railway Department.
- Consultant, Detailed Hydological Study, Ruwanpura Expressway Development Project, SKILLS International.
- Hydrologist, Hydrological Study of the Central Expressway Project, Sri Lanka Land Reclamation and Development Corporation

- Hydrologist/Drainage Engineer; Hydrological Study and Drainage Design, Extension of Southern Highway from Matara to Hambanthota, UNI Consultancy Services.
- Hydrologist/Drainage Engineer, Feasibility Study of Ruwanpura Expressway Development Project, SKILLS International
- Hydrologist/Drainage Engineer, Feasibility Study of Northern Expressway Development Project, SMEC/OCEANA Consultants.
- Hydrologist; Reconstruction and Rehabilitation of A32 road in Northern Province; Access Engineering Ltd., Sri Lanka
- Hydrologist; Reconstruction and Rehabilitation of A15, B10 and a C class road in Eastern Province; Access Engineering Ltd. and China Harbor Engineering Company Ltd., Sri Lanka
- Flood Modeler; Project on drainage designs of interchange at Colombo-Matara expressway in Nilwala flood plain, Road Development Authority, Sri Lanka.
- Coastal Engineer, Preparation of Coast Conservation & Tourism Development Master Plan within the Coastal Zone from Mirissa to Negombo, Integrated Development Consultants.
- Consultant, Peliyagoda- Mudun Ela Flood Mitigation Project, Sri Lanka Land Reclamation and Development Corporation
- Hydrologist, EIA of Central Expressway Project, University of Sri Jayawardanapura
- Hydraulic and Modelling Expert; Consultancy Services for Design and Construction Supervision of Flood Mitigation in Galle Municipal Council Area, Lanka Hydraulic Institute.
- Coastal Engineer, EIA for the proposed LNG Terminal and Pipeline Project, CEAA Consultants.
- A member of the Technical Expert Group on the rehabilitation of Chilaw, Nanthikadal, Madampe and Garanduwa lagoons, Practical Action, Sri Lanka.
- Consultant, Flood Mitigation and Drainage Management Component of the Metro Colombo Urban Development Project, Project Management Unit, Ministry of Defence and Urban Development.
- Urban storm water drainage modeller; Flood Mitigation and Drainage Management Component of the Metro Colombo Urban Development Project; COWI, Denmark.

**Senior Lecturer** (Dec. 2001 – Jan. 2012)

Dept. of Civil and Environmental Engineering, Faculty of Engineering, University of Ruhuna, Hapugala, Galle, Sri Lanka

- Coastal Processes Modeling Engineer; Harbour development projects at Ungooaaruu, Noonu Manadhoo, Haa Dhall Makunudhoo in Republic of Maldives; Central Engineering Consultancy Bureau, Sri Lanka
- Research supervisor; HEC RAS and HMS based flood forecasting models for Nilwala and Gin rivers.
- Member of the WASEDA-YNU Coastal Disasters, Environment and Management in Asia and Africa Group; Waseda University and Yokohama National University, Japan
- Coastal Hydrologist/Coastal Engineer on the project, rehabilitation of Koggala, Malala and Rajgama lagoons; Practical Action, Sri Lanka
- Drainage engineer – Storm water drainage management plan for Galagodawatte housing scheme; EML Consultants for Salvation Army of Sri Lanka.
- Member of the EIA team on Ananthaya luxury hotel, Karukkapanne, LAUGFS Leisure Ltd., Sri Lanka.
- Hydrologist for the IEE of Atabage Oya mini hydropower project in Gampola, Kolonna MKN Eco Power (pvt) Ltd., Sri Lanka
- Member of the research team on the project of rehabilitation of Koggala lagoon, Practical Action.

- Flood modeler; project on rehabilitation and improvement of Karawahu drainage scheme, Department of Irrigation, Sri Lanka.
- Coastal processes modeling engineer; Dhuvaafaru Harbour Development Project, Republic of Maldives; Central Engineering Consultancy Bureau, Sri Lanka.
- Research project supervisor; Tsunami risk assessment for the Galle city area in the southern province of Sri Lanka.
- MIKE11 hydraulic and water quality modeling expert; project on Water Quality Improvement in Colombo Canal Systems; COWI, Denmark.
- Researcher; Modeling of oil spill trajectory in the Persian Gulf, in collaboration with the Department of Civil Engineering, K.N.Toosi University of Technology, Tehran, Iran.
- Environmental and Coastal Engineer; Initial Environmental Examination of the Proposed Fishery Harbour at Hambanthota, Resource Management Consultants (pvt) Ltd.
- Coastal Engineer, Model studies and detailed designs of fishery harbours at Kapparatota, Kottegoda, Nilwella and Gandara in the south coast of Sri Lanka for Ceylon Fishery Harbour Corporation.
- Coastal Engineer, Environmental Impact Assessment of Ratmalana / Moratuwa and Ja-Ela / Ekala Wastewater systems, SWECO International AB / EML Consultants.
- Fishery Harbour Engineer; Initial Environmental Examination of the Proposed Fishery Harbour at Ambalangoda, TEAMS (Pvt) Ltd.

**Senior Hydraulic Engineer** (Nov. 2000 – Dec. 2001)

Lanka Hydraulic Institute Ltd., Moratuwa, Sri Lanka

- Hydrologist and Hydraulic Engineer (*on secondment*), Colombo Metropolitan Region Storm Water Drainage Master Plan; JICA and Nippon Koi Corporation.
- Hydrologist; Consultancy Services for Salinity Studies on Kalu Ganga; National Water Supply and Drainage Board, Sri Lanka.
- Hydrologist; Hydraulic & Hydrological Studies on the Proposed Colombo – Katunayake Expressway; Deawoo – Keangnam Joint Venture, Korea.

**Research Student** (Oct. 1997 – Sep. 2000)

Yokohama National University, Yokohama, Japan

- Research Study - Numerical Simulation of Wave Breaking on Slopes and Its Applications.

**Research Associate** (Apr. 1997 – Sep. 1997)

Asian Institute of Technology, Bangkok, Thailand

- A member of the team assigned to prepare an Environmental Impact Assessment (EIA) for a large scale near shore land reclamation project for the extension of Rayong Industrial Estate in Rayong, Thailand.

**Graduate Student** (Oct. 1995 – Apr. 1997)

Asian Institute of Technology, Bangkok, Thailand

- Research Study - Formulation and development of a two dimensional numerical model for the prediction of oil spill trajectory in the gulf of Thailand.

**Research Engineer** (Jun. 1994 – Sep. 1995)

Lanka Hydraulic Institute, Moratuwa, Sri Lanka

- Mathematical modeler and design engineer, Rehabilitation of Puranawella Fishery Harbour - Ceylon Fishery Harbours Corporation, Sri Lanka.

- Civil Engineer, Project for Control of Beach Erosion at Tanjong Sapu, SG. Tutong Estuary and SG. Belait - Department of Public Works, Brunei Darussalam.

**Instructor** (Jun. 1993 – Jun. 1994)

Department of Civil Engineering, University of Moratuwa, Moratuwa, Sri Lanka

- Involved in a study on the siltation of Negombo lagoon.

### **RECENT PUBLICATIONS:**

K.T.N. Perera; T.M.N. Wijyaratna; H.M. Jayatillake; Tilak Priyadarshana; J.M.A. Manatunge; Spillway Modernization for Improving Robustness of Village Tank Cascades for Floods, Sri Lanka; MERCon 2020

K.T.N. Perera; T.M.N. Wijyaratna; H.M. Jayatillake; Tilak Priyadarshana; J.M.A. Manatunge; Implications of storage state behavior of village tanks in adaptation to climate change, Sri Lanka; Journal of Water and Climate Change July 2020

Maduwantha, M.G.P, Wijyaratna, T.M.N., An Estimation of Storm Surge Heights of Colombo Coastline, MERCON 2019

Thilakarathne, J.A.S.I, Wijyaratna, T.M.N., A Case Study on the Retention Tanks in the Walawe Ganga River Basin, Sri Lanka, MERCon 2018

Sanjaya H.L.K., Priyadarshana T. and Wijyaratna T.M.N. , (2014), Effect of Rainfall Abnormalities on Rice Yield in Hambanthota District, Sri Lanka, Asian Journal of Agricultural and Food Sciences, Vol 02, Issue 06

Wijyaratna N, Dharmadasa V.S., Bhadrari P, Thanuja P., (2014), Storm Surges at the East Coast of Sri Lanka, Coastal Disasters Around the World, Waseda University, Tokyo, Japan.

Sultanpour M., Wijyaratna N., Hajisalimi Z., (2013), Numerical Modelling of Oil Slick Spread in the Persian Gulf, International Journal of Maritime Technology, Vol 01, No. 01/ Spring and Summer 2013 (57-66).

Wickramarachchi T.N., Ishidaira and Wijyaratna T.M.N. (2013), Variation of Constituents Loads and Concentrations with the Flow in Gin River, Sri Lanka, Journal of National Science Foundation 2013.