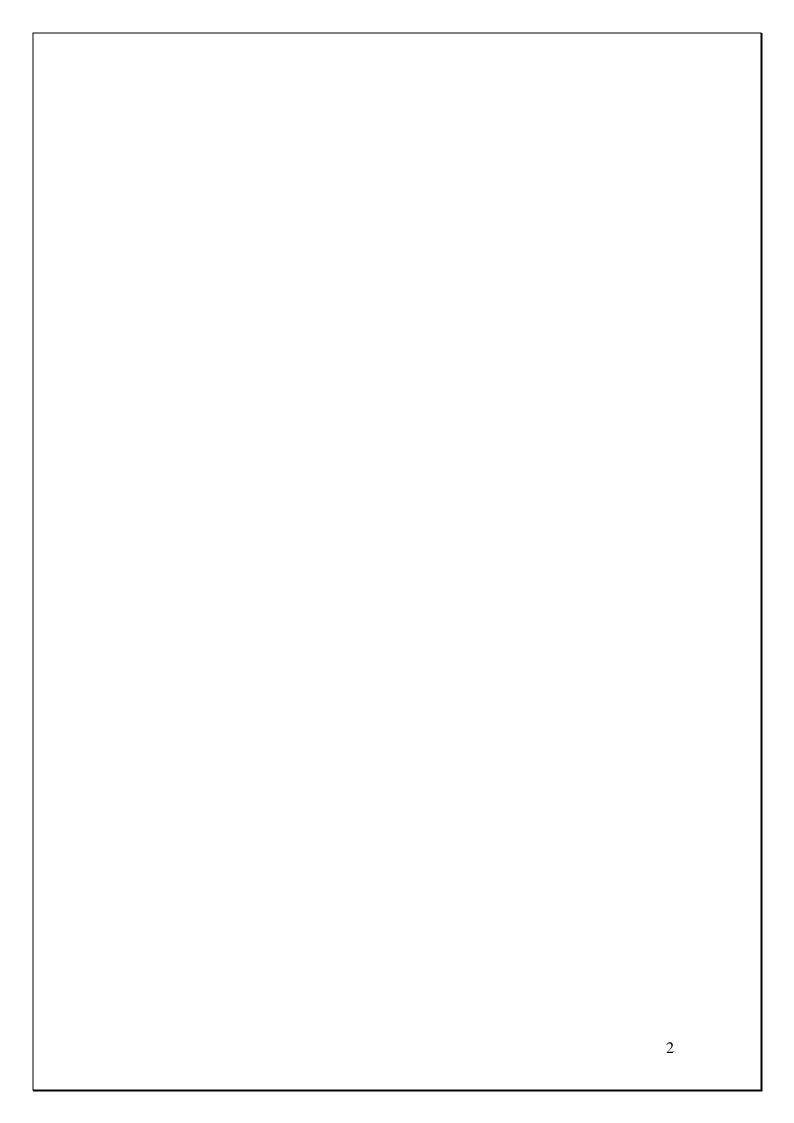
# **CURRICULUM VITAE** Nandani Dhammika Kumari Dayawansa B.Sc, M.Sc, PhD **Department of Agricultural Engineering Faculty of Agriculture** University of Peradeniya Peradeniya Sri Lanka



# PERSONAL DETAILS

**NAME** (with initials) : N.D.K. Dayawansa

NAME IN FULL : Nandani Dhammika Kumari Dayawansa

**PERMANENT ADDRESS**: No. 46 C, Pragathi Mawatha, Uda Eriyagama,

Peradeniya, Sri Lanka. Tel: 0094-81-2387216

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Department of Agricultural Engineering

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**E-MAIL ADDRESS** : dammid@pdn.ac.lk

**DATE OF BIRTH** : August 16, 1967

PLACE OF BIRTH : Kadugannawa, Sri Lanka.

**SEX** : Female

CIVIL STATUS : Married

NATIONALITY : Sri Lankan

# ACADEMIC QUALIFICATIONS

(in chronological order)

# **SCHOOL EDUCATION**

SCHOOL : Girls' High School, Kandy, Sri Lanka

**YEARS ATTENDED** : 1979-1987

**EXAMINATIONS PASSED** : GCE (Ordinary Level), 1983

: General Certificate (Advanced Level)

Examination in 1986

# **UNIVERSITY EDUCATION - B.Sc**

**UNIVERSITY** : University of Peradeniya,

Peradeniya, Sri Lanka

**YEARS ATTENDED** : 1987 - 1993

**EXAMINATIONS PASSED** : B.Sc. Agriculture (First class)

in 1993

FILED OF SPECIALIZATION : Agricultural Engineering

Duration of Specialisation : Two academic terms

Subjects for Specialisation : Soil & Water Engineering

Soil Conservation Engineering Post Harvest Technology

Title of the Research Project : GIS Based Erosion Model for the

Kotmale Sub Catchment

# **POSTGRADUATE EDUCATION - M.Sc**

**UNIVERSITY** : Asian Institute of Technology (AIT),

Bangkok, Thailand.

**YEARS ATTENDED** : 1996-1997

**EXAMINATIONS PASSED**M.Sc. in Remote Sensing and GIS with

Grade Point Average of 4.0/4.0

FIELD OF SPECIALIZATION : Remote Sensing and Geographical

Information Systems (GIS)

Title of the thesis The Identification of Non-Point Source

Pollution Risk Using GIS and Remote

Sensing Techniques.

### POSTGRADUATE EDUCATION - PhD

**UNIVERSITY** : University of Newcastle upon Tyne, UK

PERIOD ATTENDED : September, 1998 - March, 2002

FIELD OF SPECIALIZATION : Hydrology and Water Quality

Title of the Thesis : The Development of Nutrient Pollution

Models for use at the Catchment Scale.

#### PROFESSIONAL QUALIFICATIONS AND WORK EXPERIENCE

## EMPLOYMENT HISTORY (in chronological order)

(i) POST : Temporary Demonstrator

EMPLOYER : University of Peradeniya, Peradeniya, Sri Lanka.

PERIOD : May, 1995 – July, 1995.

DUTIES : Conducting practical for the undergraduates.

(ii) POST : Lecturer/ Senior Lecturer in Agric. Engineering

EMPLOYER : University of Peradeniya, Peradeniya, Sri Lanka.

PERIOD : July, 1995 - to-date.

DUTIES : Conducting lectures and practical for

undergraduates and postgraduate students, research supervision, conducting research.

(iii) PRESENT POSITION: Professor

#### **DISTINGUISHED AWARDS/ PRIZES**

- a. Tim Kendall memorial prize for the best performance in the M.Sc. program, AIT, Thailand, August, 1997.
- b. Yoh Kurosowa prize for the best performance among women graduates, AIT, Thailand, August, 1997.
- c. Winner of the Young Engineers section of the 'IESL/IWMI Best Technical Paper Competition', 2002.
- d. Best Presentation award in 'Soil and Water Management' session of the PGIA Annual Congress, 2002.
- e. Best Technical Paper Award at the International Conference on Natural Disaster Management and Infrastructure Management, 7-8 November, 2012, Colombo, Sri Lanka.

- f. Presidential Award for Scientific Research published in the year 2008
- g. NSF Awards for Supervision of research Degrees (SUSRED) 2017.

#### POSITIONS HELD

- a. President, Geo-Informatics Society of Sri Lanka, 2005/2006.
- b. Secretary, Board of Study in Agricultural Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, January, 2010 January, 2016
- c. Chairperson, Board of Study in Agricultural Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, January, 2016 -January, 2019, February, 2022 todate.
- d. Programme coordinator, Geo-Informatics postgraduate programme, Postgraduate Institute of Agriculture, University of Peradeniya, 2006 & from 2013 todate
- e. Programme coordinator, Agricultural and Biosystems Engineering postgraduate programme, Postgraduate Institute of Agriculture, University of Peradeniya, 2004-2006.
- f. Coordinator, Crossing Boundaries Project, Postgraduate Institute of Agriculture, University of Peradeniya, 2009-2011.
- g. Coordinator, IDRC-SAWA Fellowship Project, Postgraduate Institute of Agriculture, University of Peradeniya, 2012 to date.
- h. Chairperson, Publication and Public Relations Sub Committee, Faculty of Agriculture, University of Peradeniya, 2013, 2014.

#### LIST OF PUBLICATIONS

#### JOURNAL ARTICLES

Wickramasinghe, M.R.C.P., Dayawansa, N.D.K., Jayasiri, M.M.J.G.C.N. and Ranjith Premalal De Silva, A study on external pressures of an ancient irrigation cascade system in Sri Lanka, Agricultural Systems, Volume 205, https://doi.org/10.1016/j.agsy.2022.103593.

Jayasiri, M.M.J.G.C.N., Dayawansa, N.D.K. and Sudhir-Yadav (2023). Assessing the roles of farmer organizations for effective agricultural water management in Sri Lanka, Agricultural Systems, Volume 205, https://doi.org/10.1016/j.agsy.2022.103587.

Jayasiri, M.M.J.G.C.N., Sudhir-Yadav, Dayawansa, N.D.K., Propper, C.R., Kumar, V., Singleton, G.R. (2022). Spatio-temporal analysis of water quality for pesticides and other agricultural pollutants in Deduru Oya river basin of Sri Lanka. Journal of Cleaner Production, 330, 129897, https://doi.org/10.1016/j.jclepro.2021.129897.

Jayasiri, M.M.J.G.C.N., Yadav, S., Propper, C.R., Kumar, V., Dayawansa, N.D.K. and Singleton, G.R. (2022). Assessing Potential Environmental Impacts of Pesticide Usage in Paddy Ecosystems: A Case Study in the Deduru Oya River Basin, Sri Lanka. Environmental Toxicology & Chemistry, 41:343-355, https://doi.org/10.1002/etc.5261.

Jayasiri, M.M.J.G.C.N., Yadav, S., Dayawansa, N.D.K. & Ingold, K. (2022). Managing agricultural water resources: Addressing the complexity of innovation, social perspectives, and water governance in Sri Lanka. Irrigation and Drainage, 1–15. https://doi.org/10.1002/ird.2693

Hemachandra, E.M.G.P., Dayawansa, N.D.K. and De Silva R.P. (2021). Application of Standard Precipitation Index (SPI) to assess rainfall variability in a major agricultural area in Dry Zone of Sri Lanka. Tropical Agricultural Research, 32(3): 276-286.

Wickramasinghe, M.R.C.P., De Silva, R.P. & Dayawansa, N.D.K. (2021). Climate Change Vulnerability in Agriculture Sector: An Assessment and Mapping at Divisional Secretariat Level in Sri Lanka. Earth Syst Environ, https://doi.org/10.1007/s41748-021-00206-9

Hemachandra, E.M.G.P., Dayawansa, N.D.K. and De Silva, R.P. (2020). Developing a Composite Map of Vulnerability to Rainfall Extremes in Sri Lanka. In Water, Flood Management and Water Security Under a Changing Climate Springer, Cham., (pp. 63-84).

Gunawardena, D.L.K. and Dayawansa, N.D.K. (2020). Assessment of Water Availability for Agriculture and Other Uses—Development of Indices for Deduru Oya River Basin in Sri Lanka. In Water, Flood Management and Water Security Under a Changing Climate. Springer, Cham., (pp. 187-200)

Dayawansa, N.D.K. and Ranjith Premalal De Silva (2020). Geo-Informatics: Contribution from spatial sciences for agricultueal development and food security, Agricultural research for sustainable food systems in Sri Lanka, Volume 2: Pursuit for advancements, R.P. De Silva, G. Pushpakumara, P. Prasada and J. Weerahewa (Eds), Springer Nature Singapore, (pp 239-254).