

## Mr. Ritigaha Alle Gedara Chathura Nuwanmini Madushanka Nawarathna

62/2, Budhdha Jayanthi Mawatha, Arangala, Naula, Matale, Sri Lanka

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### EDUCATION

University of Peradeniya, Sri Lanka

**M.Sc.** in Geo-informatics, *May 02, 2025*

Directed Study/Project topic – “Land Cover, Land Surface Temperature and Air Quality Changes during the COVID 19 period - A Case Study in Kandy and Colombo City, Sri Lanka”

OGPA:3.91/4.00

Faculty of Agriculture, University of Ruhuna, Sri Lanka

**BSc. (Hons)** in Agricultural Resource Management & Technology (ARMT), *December 08, 2017*

OGPA: 3.63/4.00 (with Second Class upper Division)

### RESEARCH AND TEACHING INTERSTS

GIS and Remote Sensing Application.

Machine Learning and Deep Learning Technologies

Environmental assessment using Spatial Data analyzing

Surveying and Spatial Measurements

Post-harvest activities in agricultural commodities

Fruits and Vegetable supply chain assessment

Data base Management Systems

CAD and computer programing

### PUBLICATIONS

R.M.V.M. Rajapaksha. N.S. Withanage, **R.A.G.C.N.M. Nawarathna**, E.R.M.S. Ekanayake, A.M. Thrimawithana (2024). *Morphometric Characteristics of Beli Ul Oya Sub-basin of Mahaweli River Basin, Sri Lanka*, Asian Conference on Remote Sensing (ACRS 2024).

A.M. Thrimawithana, N.S. Withanage, **R.A.G.C.N.M. Nawarathna**, M.V.M. Rajapaksha (2024). *Morphometric analysis of Hulu Ganga Sub-basin of Mahaweli river basin of Sri Lanka: A GIS based approach*, Proceedings of IRCUWU pp- 192. ISBN 978-624-5856-91-6

R.M.V.M. Rajapaksha. N.S. Withanage, **R.A.G.C.N.M. Nawarathna**, A.M. Thrimawithana (2024). *Watershed assessment for soil erosion risk prioritization: A case study in Beli Ul Oya sub-basin of Mahaweli river basin, Sri Lanka*, National Symposium on Agriculture and Life Sciences 2025 (NSALS '25)

Selvarajah, T., **Nawarathna, R.A.G.C.N.M.**, Rupasinghe, C.P. and Marambage, P. (2019). *Evaluation of modified storage with charcoal and clove oil as a biological agent for okra (Abelmoschus esculentus) and Bitter gourd (Mormodica charantia)*, ICSUSL 2019, pp- 195.

**Nawarathna, R.A.G.C.N.M.** and Rupasinghe, C.P. (2019). *Comparative Assessment of Quality Parameters in Relative Humidity Controlled Storage Condition for Selected Vegetables in Sri Lanka*. Research Review international Journal of Multidisciplinary. 04 (05). ISSN: 2455-3085.

Herath, H.M.M.S.D., Piyadasa, R.U.K., Perera, T.A.N.T., **Nawarathna, R.A.G.C.M.N.** and Opallage, P.M. (2019). *Future of urban density dissemination and its effects on the spatial distribution of wetlands: A Remote Sensing & GIS based Evaluation on Kalu Oya & Mudun Ela Basin, Sri Lanka*, 21<sup>st</sup> Annual Scientific Sessions AGM.

**Nawarathna, R.A.G.C.N.M.** and Rupasinghe, C.P. (2019). *Characterization of physical and chemical properties of selected vegetables under controlled relative humidity storage*, IRCUWU 2019, pp- 253. ISBN: 978-955-0481-25-5.

**Nawarathna, R.A.G.C.N.M.** and Rupasinghe, C.P. (2018). *Increasing the food availability by reducing Post-harvest losses with photovoltaic power system in a disaster*, Proceedings of 23<sup>rd</sup> International Forestry and Environment Symposium-2018. pp- 89. ISSN: 2235-9427.

**Nawarathna, R.A.G.C.N.M.** and Rupasinghe, C.P. (2018). *Effect of Storage Relative Humidity on Quality and Shelf Life of Selected Vegetables*, Proceedings of ISAE (International Symposium on Agriculture & Environment). pp- 5.

Twisted blades height adjustable paddy weeding machine – **Patent No LK/P/20077- 2018**

## AWARDS

**Dr. SK Charles Memorial gold medal** awarded at General convocation, University of Ruhuna for best performance in undergraduate research. 2018

Bronze Medal for the invention under open agriculture category in “**Sahasak Nimavum -2018**” National Exhibition for Inventions & Innovations, Sri Lanka - 2018

Silver Medal in “**Ruhuna Invention and Innovation Exhibition**” for invention titled of “Height Adjustable Paddy Weeder” – 2018

**BRAVO certificate** awarded by John Keells Group under Jaykay Marketing Services (Pvt) Ltd for best team work Research and Development Unit - 2017

## INTERNATIONAL WORKSHOPS

Workshop in “**Multi Stakeholder Partnership Tools for Agricultural Development**” organized by WAGENINGEN University and NUFFIC – 2019

**SAKURA Exchange Program in Science, Japan-Asia** youth exchange program in KOBE University Japan - 2017

## TEACHING AND ADVISING EXPERIENCE

**Lecturer (Probationary)**, Department of Export Agriculture, Faculty of Animal Science and Export Agriculture, Uva Wellassa University- January 29, 2024 onwards

**Lecturer (Probationary)**, University College of Anuradhapura, University of Vocational Technology Department of Post-Harvest Technology- June 24, 2019 to January 26, 2024

**Higher National Diploma holders Project Advisor**, University College Anuradhapura, Department of Post-Harvest Technology –June 24, 2019 to January 26, 2024

**Course coordinator**, University College of Anuradhapura, Course – Higher National Diploma in Post-Harvest Technology –November 2019 to November 2022

**Staff Development Program for University Teachers**, University of Kelaniya,  
Certificate course, January 2021

**Resource Person**, Recognition of Prior Learning (RPL) Project – 2018  
Train the Cinnamon peelers, Ministry of Primary Industries

## RESEARCH EXPERIENCE

Land Suitability Prediction for Tea Cultivation using Machine Learning Approach: A Case Study in Uva Province, Sri Lanka.

Machine Learning Based Coconut Tree Detection and Counting Using High Resolution Satellite Images in Kurunegala District.

Assessment of Land Cover Changes and Climate Factors influences on Coconut Productivity in Coconut Triangle, Sri Lanka

Morphometric Analysis of the Victoria Reservoir Catchment in the Mahaweli Basin, Sri Lanka, Using GIS Techniques

Identification of Priority Areas for Soil and Water Conservation in Ulhitiya Oya Sub-basin of Mahaweli River Basin, Sri Lanka; A Spatial and Morphometric Analysis.

Determination of Rubber Canopy Percentage through Image Processing Method and Manual Method

Spatiotemporal Characterization of Agricultural Drought in Kurunegala District, Sri Lanka, using Integrated Drought Severity Index (IDS)

Application of image processing techniques for RSS grade classification

Watershed Management Prioritization for Soil and Water Conservation in Tea Lands: A case Study in Hulu Ganga Sub-basin of Mahweli River Basin in Sri Lanka

Watershed Management Prioritization for Soil and Water Conservation in Tea Lands: A case Study in Beli Ul Oya Sub-basin of Mahweli River Basin in Sri Lank

## ACADEMIC SERVICES

Member, Board of Study, University College of Anuradhapura – June 2019 to January 2024

Secretary, Board of Management, University College of Anuradhapura – September 2022 to August 2023

Coordinator, Industrial Internship (OJT), University College of Anuradhapura – January 2020 to January 2023

Member, Intake exam coordination committee, University College of Anuradhapura – April 2022

## PROFESSIONAL EXPERIENCE

**Model Crop Unit Coordinator**, Department of Export Agriculture, Uva Wellassa University of Sri Lanka - *January 2025 onwards*

**Assistant Registrar (Acting)**, University College of Anuradhapura, Sri Lanka - *September 2022 to August 2023*.

Manage all academic and administrative activities in college, organized main events in the College  
Lead nonacademic staff to the college success.

**Head of the Department**, University College of Anuradhapura, Sri Lanka - *November 2019 to November 2022*

**Internship Trainee** – Jaykay Marketing Services (Pvt) Ltd – *May 2017 to December 2017*  
Keells Fruits and Vegetable Collecting Center, Sigiraya

### PERSONAL DETAILS

**Date of Birth** - 13/11/1992

**Gender** - Male

**NIC** - 923181490V

**Marital Status** - Married

**Nationality** - Sri Lankan

I hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.



RAGC N M Nawarathna