

# Pamodha Chathumal

Department of Agricultural Engineering, University of Peradeniya, Peradeniya  
[chathumalk@agri.pdn.ac.lk](mailto:chathumalk@agri.pdn.ac.lk), +94 71 297 2060



## EDUCATION

<b>B.Sc. Honours in Agricultural Technology &amp; Management - GPA: 3.03/4.0</b>	Jan-2019 Mar-2024
University of Peradeniya <i>Specialization in Agricultural &amp; Biosystems Engineering (Second class honors division)</i>	
<b>G.C.E. Advanced Level (Physics, Chemistry, Biology)</b>	2017
<b>G.C.E. Ordinary Level (Passed with 9 'A's)</b>	2013

## RESEARCH EXPERIENCE

Design and Development of a Cloud-Based Automated System with Artificial Intelligence for a Spice Dehumidifier (Duration: 1 year - Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya)

## PUBLICATIONS

**Chathumal, K.P.** and Amaratunga, K.S.P. -Design and Development of a Cloud-Based Automated System with Artificial Intelligence for a Spice Dehumidifier. *Proceedings of the 9th Faculty of Agriculture Undergraduate Research Symposium (FAuRS 2023/24), Faculty of Agriculture, University of Peradeniya, Sri Lanka. (ISSN 2470-7683)*

**Chathumal, K.P.** and Chandrasekara, S.S.K. -Teleconnection between Ocean-atmospheric Oscillations and Extreme Rainfall: A Case Study for Jaffna Peninsula during 2015 and 2020. *Eds. Arasakesary, S.J. and Kajeewan. K. Proceedings of the 9th International Conference on Dry Zone Agriculture (ICDA 2023), Faculty of Agriculture, University of Jaffna, Sri Lanka. (ISSN 2465-6143)*

Attanayake, H.A.S.V., Amaratunga, K.S.P., **Chathumal, K.P.** and Wangmo, C. Development of an Artificial Intelligence (AI) based Image Processing System for Industrial Sorting of Big Onion. *Proceedings of International Agricultural Engineering Conference 2024. Asian Association of Agricultural Engineers. (2024) - Submitted*

## COLLEGIATE PRESENTATIONS

Design and Development of a Cloud-Based Automated System with Artificial Intelligence for a Spice Dehumidifier. *Faculty of Agriculture Undergraduate Research Symposium (FAuRS 2023/24)* Mar-2024

## EMPLOYMENT

Graduate Teaching Assistant: Department of Agricultural Engineering, UOP Oct-2024 – Present

- Assisting professors in delivering lectures, grading assignments, evaluating student performance, and conducting tutorials while providing academic support to students.

## AWARDS AND ACHIEVEMENTS

**Best Innovative Research** in Undergraduate Research Symposium Faculty of Agriculture Mar-2024

**2nd Runner-Up of the Merit Awards** for undergraduate research of the theme on Technological Interventions & Applications, Faculty of Agriculture Undergraduate Research Symposium Mar-2024

Honoured with the Aquatic Resource Development Project Scholarship for the **Best Innovator of the Faculty of Agriculture**, University of Peradeniya Apr-2024

**Nominated for the Best Oral Presenter Award** for undergraduate research at the Faculty of Agriculture Undergraduate Research Symposium Mar-2024

**Winner in All-Island School Inventors' Competition** conducted by the Sri Lanka Association for the Advancement of Science jointly with the Ministry of Education at the Faculty of Science, University of Colombo Dec-2012

## TRAINING EXPERIENCES

---

- 5-week training period, attached to Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya, conducted at the Meewathura Farm Premises, University of Peradeniya, with respect to farm mechanization, plantation Management and, protected agriculture 2023
- 6-month training in Mahalluppallama Sub-campus with respect to crop production, surveying, irrigation, and other activities related to agriculture 2019

## SKILLS

---

**Computer Software & Languages:** Autodesk AutoCAD, Microsoft Office Suite, OpenOffice, C++, Python, R, R studio, Adobe Illustrator, Adobe Photoshop. **Microcontrollers Programming:** PIC, Arduino, Raspberry Pi. **Applied Engineering & Data Science:** Machine learning, Process control and automation. **Languages:** Sinhala (Native) and English (Fluent).

## RESEARCH INTERESTS

---

Deep learning systems, machine learning, process control and automation, embedded systems, autonomous navigation of agricultural vehicles, Internet of Things, sensor development.

## EXTRACURRICULAR ACTIVITIES

---

- Editor:** *Robobots Committee*, Faculty of Agriculture, University of Peradeniya 2023
- Committee Member:** *Agricultural Engineering Students' Society*, (FOA, UOP) 2023
- Editor:** *Art Circle*, (FOA, UOP) 2020-2021
- Art Circle Orchestra** 2019-2023

## VOLUNTARY SERVICES

---

- Event Manager, Diamond Jubilee Launching Ceremony 2023
- Coordinated and developed programs, handled multimedia, and designed promotional materials for: *Cultural show at The South Asian Nitrogen Hub (SANH) - Annual International Conference 2023* and *FoodInno 23' World Food Day Celebrations* Oct-2023
- Fundraising and promotional material design for the Indeewari 2023 Needy Scholarship Program 2022-2023
- Backdrop animation and poster design for The South Asian Nitrogen Hub (SANH) - Annual International Conference 2023 Oct-2023
- Design of promotional materials, backdrops, invitations, and certificates for: *'Scientia' - All Island Inter-School Quiz Competition & iPURSE-F 2023 (Peradeniya University International Research Sessions)* Sep-2023

## REFEREES

---

### Prof. Sanath Amaratunga

Professor  
Department of Agricultural Engineering,  
Faculty of Agriculture,  
University of Peradeniya,  
Peradeniya,  
Sri Lanka.

+94 71 833 9593

[sanath.amaratunga@gmail.com](mailto:sanath.amaratunga@gmail.com)  
[sanath@agri.pdn.ac.lk](mailto:sanath@agri.pdn.ac.lk)

### Prof. Sarath S Kodituwakku

Dean  
Faculty of Agriculture,  
University of Peradeniya,  
Peradeniya,  
Sri Lanka

+94 77 780 1710  
+94 71 780 1710

[sarathabc@gmail.com](mailto:sarathabc@gmail.com)  
[dean@agri.pdn.ac.lk](mailto:dean@agri.pdn.ac.lk)