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Google Scholar <https://scholar.google.com/citations?user=6qhBuBgAAAAJ&hl=en&oi=sra>

ResearchGate <https://www.researchgate.net/profile/Ayesh-Lowe/research>

LinkedIn <https://www.linkedin.com/in/ayesh-lowee-aa105aa8/>

**Research Interests** Farming systems, Climate-smart livestock management, Integrated farming  
Wild-life management in relation to Agriculture, Animal behavior & welfare

## Academic Qualifications

- 2020-2023 **M.Phil.** By research (Thesis submitted & Awaiting defense examination)  
@ Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2011-2015 **BSc. (Hons) in Agricultural Technology & Management**  
FGPA **3.48/4.00** (Second class Upper division)  
@ Faculty of Agriculture, University of Peradeniya, LK

## Work Experience

- June, 2023 to date** **Lecturer (Probationary)** @ Dept. of Animal Science, Faculty of Agriculture, University of Peradeniya, LK.
- Other 2023** **Project assistant** @ Dept. of Animal Science, Faculty of Agriculture, University of Peradeniya, LK. A project funded by the Netherlands (The Dutch Embassy) for the establishment of an online dairy training platform.  
Working as the coordinator of the same project from January, 2024 to date
- Research 2019-2023** **Research Assistant** @ Dept. of Animal Science, Faculty of Agriculture, University of Peradeniya, LK. Research project funded by National Science Foundation, LK
- Industry 2016-2019** **Asst. Supplier Relationship Officer** @ Fonterra Brands Lanka (Pvt) Ltd, Biyagama, LK.  
(Local Dairy Development Program operated under Dept. of Supply Chain)

## Undergraduate courses (Teaching panels)

- Teaching** Farming systems, Wild life management, Wild life and ecosystems
- Coordinating** Animal behavior and welfare

### Journal Articles

**Lowe, A.**, Kuruppuarachchi, N., Silva, P., Pushpakumara, G., Suriyagoda, L. and Weerahewa, J., 2024. Does human intervention modulate the above-ground carbon biomass of agroforestry systems? A study of homegardens in Jaffna peninsula, Sri Lanka. *Agricultural Systems*, 215, p.103842.

<https://doi.org/10.1016/j.agry.2023.103842>

**Lowe, W. A. M.**, Pushpakumara, D. K. N. G., Weerahewa, H. L. J., Vitharana, W. A. U., Marambe, B., Punyawardena, B. V. R., & Silva, G. L. L. P. (2023). Enhancing household food security and dietary diversity through homegardens: A case study in selected districts of Sri Lanka. *Tropical Agricultural Research*, 34(3), 170-187.

<https://doi.org/10.4038/tar.v34i3.8645>

**Lowe, W. A. M.**, Silva, G. L. L. P., & Pushpakumara, D. K. N. G. (2022). Homegardens as a Modern Carbon Storage: Assessment of Tree Diversity and Above-Ground Biomass of Homegardens in Matale District, Sri Lanka. *Urban Forestry & Urban Greening*, 127671.

<https://doi.org/10.1016/j.ufug.2022.127671>

Dandeniya, W. S., Herath, E. M., **Lowe, A. M.**, Kasinthar, M., Jinadasa, R. N., Vidanarachchi, J. K., & Samarakone, T. S. (2022). Antibiotic use in commercial broiler chicken farming and its consequential resistance development in root colonizing bacteria of carrot grown in manure applied soils in a middle-income country. *Canadian Journal of Soil Science*. 102(2), 319-329.

<https://doi.org/10.1139/cjss-2021-0001>

**Lowe, W. A. M.**, Sinniah, J., Jeyavanan, K., Silva, G. L. L. P., & Pushpakumara, D. K. N. G. (2021). 'Can homegardens assist in enhancing the domestic food security?' A study in Jaffna Peninsula, Sri Lanka. *Agroforestry Systems*, Springer.

<https://doi.org/10.1007/s10457-021-00647-1>

**Lowe W. A. M.**, Samarakone T. S., Vidanarachchi J. K., Dandeniya W. S. and Edirisinghe N. (2019) 'Antibiotic Residue Free Broiler Meat'; Prevalence of Antibiotic Residues in Broiler Meat and Resistant Bacteria in Poultry Litter in Sri Lanka and Awareness On Antibiotic Usage. *International Journal of Food and Nutritional Sciences*, 8 (4): pp 35-41.

## Research and Publications

### Conference Proceedings

**Ayesh Lowe**, Niluka Kuruppuarachchi, Pradeepa Silva, Gamini Pushpakumara, Lalith Suriyagoda and Jeevika Weerahewa. (2023). Does human intervention modulate the above-ground carbon biomass of agroforestry systems? A study of homegardens in Jaffna peninsula, Sri Lanka. Presented at The Agriculture-Livestock-Forestry Nexus in Asia: Contributions and Potential for Improving Farmers' Livelihoods, Soil Health, and Climate Change Adaptation and Mitigation. 2 - 3 November 2023, Lobesa, Bhutan.

**Lowe, W. A. M.** Silva, G. L. L. P. and Pushpakumara D. K. N. G. (2021). Variation of Tree Diversity and Above-Ground Biomass of Homegardens in Matale District, Sri Lanka. Proceedings of Peradeniya University International Research Sessions 2021, Sri Lanka, Vol. 23, pp 120.

Dandeniya W. S., Herath E. M., Lasinthar., M., **Lowe W. A. M.**, and Jinadasa R. N. (2018). Prevalence of Antibiotic Resistant Bacteria in Poultry Litter Based Manure and Potential Threats on food safety for Carrot (*Daucus carota*), Global Symposium on Soil Pollution, FAO HQ Rome, Italy, 2-4 May 2018. pp 309-314.

**Lowe W. A. M.**, Samarakone T. S., Vidanarachchi J. K., Dandeniya W. S. and Nirupa Edirisinghe (2015). 'Antibiotic Residue Free Broiler Meat': Prevalence of Antibiotic Residues in Broiler Meat and Resistant Bacteria in Poultry Litter in Sri Lanka and Awareness on Antibiotic Usage. Faculty of Agriculture Undergraduate Research Symposium 2015, Faculty of Agriculture, University of Peradeniya, Sri Lanka, pp. 225.

**Lowe, W.A.M.**, Pushpakumara, D. K. N. G., Weerahewa, H.L.J., Vitharana, W.A.U., Marambe, B., Punyawardana, D.V.R. and Silva, G. L. L. P. (2022). Scope of the Homegardens in Realizing Household Dietary Diversity; A Case Study in Selected Districts of Sri Lanka. Proceeding of the 34th Annual Congress of the Postgraduate Institute of Agriculture, 18th November 2022.

### Awards

- 2022 The presentation titled **Assessment of the scope of homegardens in realizing household food requirement and dietary diversity; a case of selected districts in Sri Lanka**, was awarded as the best oral presentation in the session of **Social Dimensions in Food and Environment**, at the 34<sup>th</sup> Annual congress of PGIA, 2022)
- 2015 Final year research presentation was awarded as the **best poster presentation** in the session of "Social, Institutional and Economic Development", at the Faculty of Agriculture Undergraduate Research Symposium, 2015

### Abstracts

Tishekesh K., **Lowe W. A. M.**, and Silva G. L. L. P. (2020). Comparison of The Above-Ground Biodiversity in Homegardens with and without Livestock in Jaffna District. Faculty of Agriculture Undergraduate Research Symposium 2019, Faculty of Agriculture, University of Peradeniya, Sri Lanka.

Kumarajeewa M. A. G. H., Vidanarachchi J. K., Weerasingh, A. and **Lowe A.** (2019). Investigation of Hygienic Practices in Routine Milking and Quality of Raw Milk Supplied by Small Scale and Medium Scale Dairy Cattle Farmers in Doluwa Veterinary Range. International Research Conference on Sustainable Business Transition Through Technology and Innovation, Uva Wellassa University of Sri Lanka, Sri Lanka. pp 525.

Kaushalya R. J., Samarakone T. S., **Lowe A.** and Weerasinghe W. P. C. G. (2019). Evaluation of Current Welfare Status of Dairy Cows and Calves in Doluwa Area, Kandy District, Sri Lanka. Faculty of Agriculture Undergraduate Research Symposium 2018, Faculty of Agriculture, University of Peradeniya, Sri Lanka. pp. 192.

Fernando P. M. R. K., Vidanarachchi J. K., Weerasinghe W. V. V. R. and **Lowe A.** (2019). Compositional Changes in Milk Due to Field Isolates of Mastitis Causing Bacteria Obtained from Sri Lankan Dairy Herds: *Staphylococcus aureus*, *Streptococcus agalactiae* and *Escherichia coli* under Chilling Condition. Faculty of Agriculture Undergraduate Research Symposium 2018, Faculty of Agriculture, University of Peradeniya, Sri Lanka. pp. 144.

Madusanka K. M., Weerasinghe W. V. V. R., Somasiri S. C., Vidanarachchi J. K. and **Lowe A.** (2018). Effects of Milking Time and Storage Temperature on the Microbiological Quality of Raw Milk, 10th Annual Research Symposium 2018, Faculty of Agriculture, Rajarata University of Sri Lanka, pp.49.

Kumarajeewa M. A. G. H., Vidanarachchi J. K., Weerasinghe, A. and **Lowe A.** (2017). Investigation of Hygienic Practices in Routine Milking and Quality of Raw Milk Supplied by Small Scale and Medium Scale Dairy Cattle Farmers in Doluwa Veterinary Range, Faculty of Agriculture Undergraduate Research Symposium 2017, Faculty of Agriculture, University of Peradeniya, Sri Lanka, pp. 192.

## Workshops

*Successfully completed*

- 2022 **Effective Research Presentation Skills**, Pre-congress workshop, 34rd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2022 **Effective Research Paper Writing**, Pre-congress workshop, 34rd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2022 **Narrate a Story with Complex Data**, Pre-congress workshop, 34rd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2021 **Presenting Science Online**, Pre-congress workshop, 33rd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2021 **Upon Journal Submission to The Publication**, Pre-congress workshop, 33rd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2021 **Introduction to MATLAB for Biologists**, University Research Council, University of Peradeniya, LK
- 2021 **Data Analysis Using SAS**, Pre-congress workshop, 33rd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2020 **How to Create and Deliver High-Impact Presentations**, Pre-congress workshop, 32nd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2020 **Writing a Quality Research Paper**, Pre-congress workshop, 32nd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2020 **Addressing Reviewers' Comments on a Manuscript**, Pre-congress workshop, 32nd Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2019 **Writing an Impactful Research Paper**, Pre-congress workshop, 31st Annual Congress, Postgraduate Institute of Agriculture, University of Peradeniya, LK
- 2014 **GIS for Agricultural Research: One-day Workshop**, Soil Science Society, Faculty of Agriculture, University of Peradeniya, LK
- 2011 **Certificate in Office Application Course conducted by the Ministry of Education** in collaboration with Zonal Education Office Denuwara of the Department of Education (Central Province)
- 2011 **Residential workshop on Leadership and Team Development** held at Mahailuppallama sub campus, organized by Faculty of Agriculture, University of Peradeniya.

## Outreach Activities

- 2012-2017 **Active Member**, Art Circle, Faculty of Agriculture, University of Peradeniya, LK  
**Keyboardist/ Harmonium player** of the Music group conducted by Art Circle, Faculty of Agriculture, University of Peradeniya, LK
- 2014-2015 **President**, Art Circle, Faculty of Agriculture, University of Peradeniya, LK
- 2015 (Final Semester) **Asst. Batch representative**, 2010/2011 batch intake, Faculty of Agriculture, University of Peradeniya, LK
- 2015 Successfully completed **One-month in-plant training program @ Karandagolla Poultry Breeding Farm** operated under National Livestock Development Board (NLDB)
- 2012 **Instructor**, *Relibimen Samabimata Educational Program for GCE O/L students*, organized by Faculty of Agriculture Students' Union, University of Peradeniya, LK
- 2012 **Instructor**, *One day seminar* program for GCE Advanced Level students, organized by Animal Science Society, Faculty of Agriculture, University of Peradeniya, LK

## Language Skills

- English (2021) **International English Language Testing System (IELTS: 2023)**  
Overall band score: **7.5** (CEFR level: *C1 Proficient User*)  
(Listening: 8.5 Reading: 8.5 Writing: 6.5 Speaking: 7.0)

## Reference

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*I do hereby certify that the above particulars are true and accurate to the best of my knowledge.*

W. A. M. Lowe  
March, 2024