

Dr. R.P. DAYANI GUNATHILAKA
Lecturer in Agriculture and Environmental Economics

Department of Export Agriculture
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1. PROFILE

A mid-career researcher in Agriculture and Environmental Economics and specifically interested in learning how environmental changes are interconnected with agriculture and development at the developing country context. I studied Agriculture with a major in Plantation Management at Wayamba University of Sri Lanka and MSc at Postgraduate Institute of Agriculture, University of Peradeniya. While working as a Lecturer at the Department of Export Agriculture of Uva Wellassa University since May 2011, I completed PhD in Agriculture and Environmental Economics at Griffith University, Australia. My expertise lies in interdisciplinary research, climate change economics and environmental valuation.

2. EDUCATIONAL QUALIFICATIONS

2018 - PhD (Griffith University, Australia)

2010 – MSc (Postgraduate Institute of Agriculture, University of Peradeniya)

2006 – BSc (Faculty of Agriculture and Plantation Management, Wayamba University of Sri Lanka)

3. ACADEMIC HONOURS (AWARDS, RECOGNITIONS AND SCHOLARSHIPS)

Australia Endeavour Postgraduate Scholarship

Deputy Vice Chancellor (Research) International Postgraduate Research Scholarship

4. PUBLICATIONS

4.1 Peer Reviewed Journal Articles

Gunathilaka, R. P. D., Smart, J. C. R., Fleming, C. M. & Hasan S. The impact of climate change on labour demand in the plantation sector: The case of tea production in Sri Lanka. *Australian Journal of Agricultural and Resource Economics*, 62(3), 480-500.

Gunathilaka, R. P. D., Smart J.C.R. & Fleming, C.M. (2018). Adaptation to climate change in perennial cropping systems: Options, barriers and policy implications. *Environmental Science and Policy*, 82, 108-116, <https://doi.org/10.1016/j.envsci.2018.01.011>.

Gunathilaka, R. P. D., Smart, J. C. R., & Fleming, C. M. (2017). The impact of changing climate on perennial crops: the case of tea production in Sri Lanka. *Climatic Change*, 140(3), 577-592.

Gunathilaka, R. P. D., & Tularam, G. A. (2016). The Tea Industry and a Review of Its Price Modelling in Major Tea Producing Countries. *Journal of Management and Strategy*, 7(1), 21 - 36.

Gunathilaka, R.P.D., & Rathnayaka, R.M.P.S. (2013). Development an absenteeism index for tea plantation workers, *International Journal of Applied Agricultural Research*, 8 (1), 33-39.

Gunathilaka, R.P.D., & Rathnayaka, R.M.S.D. (2012). Assessing the adoption of HACCP metasystem by the tea manufactures in Kandy region of Sri Lanka, *International Journal of Agriculture, Environment and Biotechnology*, 5, (4), 463-467.

Gunawardhana, G.C.B., Karunaratne, S. B., Gajanayake, K.G.M.C.P.B and Gunatilake, R. P. D. Assessing the Adoption Level of Recommended Technologies by Cashew Growers in Puttalam District of Sri Lanka, *Proceeding of the 8th Agricultural Research Symposium*, Faculty of Agriculture & Plantation Management, Wayamba University of Sri Lanka, pp 334-340 (2008).

Gunathilaka, R.P.D., Jayasundera, J.M.M.A. and Fernandopulle, M.N.D. Formulation of a cheese spread with the highest possible substitution of coconut skim milk for non-fat dry milk. *Proceeding of 5th Agricultural Research Symposium*, Faculty of Agriculture & Plantation Management, Wayamba University of Sri Lanka, pp 56-60 (2005).

4.2 Books/Book Chapters

Jayasinghe, J. M. U. K., Gunathilaka R. P. D., & Karunaratne, S. B. (2007). Production and per capita availability of paddy in Sri Lanka. *A Review on Food Security Standpoint of Paddy*. Centre for Agribusiness Studies, Wayamba University of Sri Lanka.

4.3 Abstracts/Extended Abstracts

Jayasundera, J.M.M.Y.B., Gunathilaka, R.P.D. and Karunaratne, G.U. Impact of rainfall variation on tea (*Camellia sinensis* L.) yield in Uva-medium region, *Proceedings of the 4th Research Symposium*, Uva Wellassa University, Sri Lanka, pp 10-13 (2013).

Kanthi, G.M.P., Gunathilaka, R.P.D. and Amarasingha, F. Comparative analysis of manual and mechanical tea harvesting, *Proceedings of the 4th Research Symposium*, Uva Wellassa University, Sri Lanka, pp 19-21 (2013).

Rajakaruna, S.C. and Gunathilaka, R.P.D. Factors affecting on the global market share of Sri Lankan tea, *Proceedings of the 4th Research Symposium*, Uva Wellassa University, Sri Lanka, pp 37-39 (2013).

Rathnayaka, D.M.W.P. and Gunathilaka, R.P.D. Awareness of tea small holders on climate change: the case of tea small holders in Badulla district, *Proceedings of the 4th Research Symposium*, Uva Wellassa University, Sri Lanka, pp 40-42 (2013).

Atugoda, R.M.R.S.B., Gunathilaka, R.P.D. and Thalagoda, S.A. Factors affecting on supply of standard tea leaves: the case of bought leaf factories in Ratnapura district, *Proceedings of the 4th Research Symposium*, Uva Wellassa University, Sri Lanka, pp 30 (2013).

Munasinghe, L.K., Gunathilaka, R.P.D. and Jayasundara, D. Farmers' perception on extension service provided by the tea small holding authority: the case of tea small holders in Nagoda DS division, *Proceedings of the 4th Research Symposium*, Uva Wellassa University, Sri Lanka, pp 33 (2013).

Ramesh, S., Gunathilaka, R.P.D., Umashankar, K., and Kahandawa, K.R.W.B. Technical efficiency in black tea production, *Proceedings of the 4th Research Symposium*, Uva Wellassa University, Sri Lanka, pp 34 (2013).

Hewanbikanda, C. S., Mohotti, K.M. and Gunathilaka, R.P.D. Comparison of integrated pest management strategies in different tea growing countries with special reference to pesticide residue monitoring, *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 133-135 (2012).

Weerasinghe, K.G.N.H. and Gunathilaka, R.P.D. Investigation of cleaner production options in latex dipping industries. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 191-193 (2012).

Niroshani, A.C., Gunathilaka, R.P.D. and Bandara, S.M.P.I.G. Development of a reference sensory profile for Uva Black tea and house of quality for Uva tea. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 207-208 (2012).

Dasanayaka, R.M.S.N., Gunathilaka, R.P.D. and Rathnayake, R.M.S.D. Impact of broker-producer interaction on tea producer's satisfaction in price realization. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 223-225 (2012).

Swarnamali, M.A.N., Premathilaka, K.G., Gunathilaka, R.P.D. and Jayasinghe, H.A.S.L. Perception of tea smallholders in Badulla District adopting mix crop cultivation. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 227-228 (2012).

Premarathne, E.N.M., Mohotti, K.M., Gunathilaka R.P.D., and Amarasena, D. Comparison of dry matter partitioning of organically and conventionally grown tea for carbon sequestration potential. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 253-255 (2012).

Perera, H.A.A.U., Gunathilaka, R.P.D. and Nawarathna, N.M.P.C. Application of cleaner production techniques in tea processing. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 211-213 (2012).

Mowlithas, A., Gunathilaka, R. P. D. and Senanayaka, P. K. Identification of reasons for higher percentage of tea off grades in tea processing. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 257-258 (2012).

Abeyrathna, O.P.I.A., Wijerathne, T.L., Gunathilaka, R.P.D. and Jayasinghe, H.A.S.L. The Shoot Growth Pattern of Tea (*Camellia sinensis*) during Different Stages of the Pruning Cycle. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 281-283 (2012).

Koththagoda, K.C., Gunathilaka, R.P.D. and Rathnayaka, R.M.S.D. Constraints for promotion of tea tourism in Sri Lanka. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 585 (2012).

Udagedara, U.M.O.C. and Gunathilaka, R.P.D. Development of a process model for Uva tea. *Proceedings of the 3rd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 586 (2012).

Rathnayaka, R.M.S.D., Gunathilaka, R.P.D. and Kithsiri, K.H.S.K. A study on factors Affecting Adoption of Maximum Residue Level in Tea Estate Sector with Special Reference to Kandy District, *Proceedings of the 2nd Research Symposium*, Uva Wellassa University, Sri Lanka, pp 318-320 (2011).

Rathnayaka, R.M.S.D., Gunathilaka, R.P.D. and Kithsiri, K.H.S.K. Compliance to International Food Safety Regulations: In Tea Small Holding Sector with Special Reference to Kandy District, Sri Lanka, *Proceedings of the 1st Research Symposium*, Uva Wellassa University, Sri Lanka, pp 54 (2010).

4.4 Scientific Presentations

Gunathilaka, R. P. D., Smart, J.C.R. & Tularam, G. A. (2014). A framework for estimating economic impact of climate change on tea production: robust adaptation approaches. Climate Adaptation Conference, Gold Coast, Australia, 30 September – 2 October.

Gunathilaka, R. P. D., Smart, J.C.R. & Fleming, C. M. (2016). Estimating economic impact of weather variations on perennial crops: the case of tea production in Sri Lanka. 45th Australian Conference of Economists, Flinders University, Australia, 11-13 July.

Gunathilaka, R. P. D., Smart, J.C.R. & Fleming, C. M. (2016). Estimating the impact of changing climate on perennial crops: the case of tea production in Sri Lanka. The Sixth Congress of the East Asian Association of Environmental and Resource Economics (EAAERE), Kyushu Sangyo University, Fukuoka, Japan, 7-10 August.

Gunathilaka, R. P. D.(2016). Estimating the impact of changing climate on perennial crops: the case of tea production in Sri Lanka. HDR Symposium 2016, Australian Rivers Institute, Australia, 16 August.

Gunathilaka, R. P. D.(2015). Economic impact of climate change on plantation crops. HDR Symposium 2015, Australian Rivers Institute, Australia, 31 July.

Gunathilaka, R. P. D., Smart, J.C.R. & Fleming, C. M. (2017). Economic consequences of climate change on plantation agriculture: the case of tea production in Sri Lanka. 61st Annual Conference of the Australian Agricultural and Resource Economics Society, Brisbane, Australia, 7-10 February.

4.5 Theses/Dissertations

5. PATENTS

A Mechano-chemical Reclaiming Process for Ground Rubber Tyre (Patent No. 17588)

6. RECENT RESEARCH PROJECTS INVOLVED

Economic consequences of climate change on Sri Lanka tea producers

7. GRANTS RECEIVED

Project Grant from South Asian Network for Development and Environmental Economics

8. THESIS SUPERVISION

Mphil thesis supervision - ongoing

Climate change impacts on crop diversification, labour demand and female employment in perennial plantation agriculture

Undergraduate thesis supervision – 30 projects have been completed

9. TEACHING CONTRIBUTION

Econometrics
Environmental Valuation
Management of Plantation Crops
Introduction to Crop Science
Tea Cultivation and Management
Processing and Value Addition to Plantation Crops
Cultivation and Management of Coconut and Underutilized Crops
Overview to Palm and Latex Industry
Strategic Human Resource Management
Environmental Impact of Tea Industry

10. WORK EXPERIENCE

Lecturer at the Department of Export Agriculture, Uva Wellassa University of Sri Lanka for Plantation Crop Management

May 2009 – present

Demonstrator at the Department of Export Agriculture, Uva Wellassa University of Sri Lanka for Plantation Crop Management

July 2008 – May 2009

Demonstrator at the Department of Plantation Management in the Faculty of Agriculture, Wayamba University of Sri Lanka.

June 2007 – June 2008

Research Assistant at the Department of Agribusiness Management in the Faculty of Agriculture, Wayamba University of Sri Lanka.

September 2006 – May 2007

11. OTHER POSITIONS HELD

Sub Warden – Uva Wellassa University of Sri Lanka

Research Project Coordinator (Tea Technology and Value Addition Degree Programme) – 2012,2013 and 2019

Industrial Training Coordinator (Tea Technology and Value Addition Degree Programme) – 2011 & 2012

Field Training Program on Tea Production (Estate Training), B.Sc in Tea Technology and Value Addition, degree program of Uva Wellassa University of Sri Lanka (2011 &2012)

Secretary to the course committee – Bachelor of Export Agriculture degree programme (2009,2010,2011,2012)

12. RESOURCE PERSON

Science Workshop for school children in Udawela M.M.V. (2009)

13. CONSULTANCIES

Committee member of Environmental Impact Assessment Team, Central Environmental Authority (Badulla region), Sri Lanka (2011)

Committee member of Workforce Development team of Rubber Cluster (City Cluster Economic Development project, Colombo, Sri Lanka (2012-2013)

14. TRAININGS AND WORKSHOPS ATTENDED

“Writing Research Papers in Science” held on June 18, 2014 at Australian Rivers Institute, School of Environment of Griffith University.

Workshop on “R programming” held on 21-23 July 2014 at the University of Queensland.

Workshop on “Turbocharge your writing” held on 3 August 2016 at Griffith University.

Workshop on “Scientific paper writing” held on 11-13 October 2016 at the Eco Centre, Griffith University.

Workshop on “Advanced R programming” held on 22-24 February 2016 at the Centre for Applications in Natural Resource Mathematics of the University of Queensland.

National Climate Adaptation 2014: Future Challenges, 29th September - 2nd October 2014 at the Gold Coast Exhibition and Convention Centre.

61st Australian Agricultural and Resource Economics Conference held on 7-10 February 2017 at Brisbane Convention and Exhibition Centre.

Uva Wellassa University Annual Research Symposium-2010: Value Addition to National Resource Base. Uva Wellassa University of Sri Lanka, Badulla

Uva Wellassa University Annual Research Symposium-2011: Value Addition to National Resource Base. Uva Wellassa University of Sri Lanka, Badulla

Uva Wellassa University Annual Research Symposium-2012: Value Addition to National Resource Base. Uva Wellassa University of Sri Lanka, Badulla

Uva Wellassa University Annual Research Symposium-2013: Value Addition to National Resource Base. Uva Wellassa University of Sri Lanka, Badulla

Wayamba University of Sri Lanka 11th Agricultural Research Symposium – 2013: Faculty of Agriculture and Plantation Management (20-21st September 2013)

Fourth National Plantation Crop Research Symposium organized by the Plantation Ministry of Sri Lanka held at Hotel Taj Samudra, Colombo, Sri Lanka (20th-21st September 2012).

Conference on challenges in sustaining best practices in higher education-2010, SLAIHEE-University of Colombo, Sri Lanka (5th April 2010)

Workshop on process improvements of rubber industry organized by City Cluster Economic Development Regional, Hilton, Colombo, Sri Lanka (21st March 2013)

In-house training programme on industrial standardization, quality management and certification held at the Uva Wellassa University, by the Sri Lanka standards Institute, Sri Lanka (17th December 2009)

Workshop on ISO 22000 organized by the Faculty of Animal Science and Export Agriculture, Uva Wellassa University, Sri Lanka

Workshop on making teaching more effective organized by the Staff Development Centre, University of Colombo held at University of Colombo, Sri Lanka (17th July 2009)

Theme seminar on science education for sustainable development held at Sri Lanka Association for Advancement for Science, Colombo, Sri Lanka (8th December 2009)

Seminar on Academia-Exporter/EDB Dialogue on major export products of Sri Lanka held at Sri Lanka Export Development Board, Colombo, Sri Lanka (21st December 2009)

Workshop on Career guidance and counselling organized by Uva Wellassa University, Sri Lanka (24-25th April 2013)

Three-day residential outward bound leadership training on group dynamics and personality development organized by the board of study in Agricultural Extension, University of Peradeniya held at Training, Research, Education and Extension Centre – Randenigala, Sri Lanka (1st – 3rd May 2009)

15. EDITOR/REVIEWER ASSIGNMENTS

Reviewer - 3rd Annual Research Symposium of Uva Wellassa University of Sri Lanka (2012)

Reviewer - 6th World Congress of Environmental and Resource Economists (2018)

16. SCIENTIFIC SOCIETIES MEMBERED

Australian Agricultural and Resource Economics Society

Australian Economists Society

East Asian Society of Environmental and Resource Economics

Society of Sri Lankan Agricultural Economists

17. PERSONAL INFORMATION

Surname : Gunathilaka

Name : Dayani

Gender : Female

Date of Birth : May 23, 1979

Marital Status : Married

Nationality : Sri Lankan