

1. PERSONAL INFORMATION

1. Surname with Initials: D.K.N.G. Pushpakumara
Used Name: Gamini Pushpakumara
2. Date of Birth: 17th October 1963
3. Sex: Male
4. Nationality: Sri Lankan
5. Marital Status: Married, with three children.
6. Contact Details:



Official Department of Crop Science, Faculty of Agriculture, University of Peradeniya, Peradeniya 20400, Sri Lanka.
Phone: +94 81 2395010 (Office); +94 714 933591 (Mobile)
Fax: +94 81 2395110 / 2388041
E-mail: ngpkumara@pdn.ac.lk, ngpkumara@agri.pdn.ac.lk

Home 140/4/A, Sooriyagoda Road, Moladanda, Kiribathkumbura 20442, Sri Lanka.
Phone: +94 81 2386660 / +94 81 2077851
E-mail: ngpkumara63@gmail.com; pkumaralk@yahoo.com

h index=15, i10 index=26 (as per Google scholar)
<https://scholar.google.nl/citations?user=5vrJ34IAAAAJ&hl=en>

RG Score=24.1 (as per Research Gate)
https://www.researchgate.net/profile/Dkng_gamini_Pushpakumara

Orcid Number
<https://orcid.org/0000-0002-6371-1972>

2. EDUCATION QUALIFICATIONS

2.1 Postgraduate Qualifications

Ph.D. (Forest Genetics and Germplasm Conservation), October 1993-May 1997. University of Oxford, UK.

M.Sc. (Forestry and its Relation to Land Use), October 1992-October 1993. University of Oxford, UK.

2.2 Undergraduate Qualifications

B.Sc. (Agriculture) First Class Honours, October 1984-1990. University of Peradeniya, Sri Lanka.

2.3 Other Qualifications

Training Program on Degree Program Reviewers 2020 conducted by Quality Assurance Council of University Grant Commission. conducted on 16th June 2020. **Training workshop on “Quality Planting Material Production and Supply Systems for Agroforestry”**- 2015 held in Gwalior, India and organized by World Agroforestry Centre, Nairobi, Kenya. **Training workshop on “Research Methods in Agroforestry”**- 2014 held at the National Research Centre for Agroforestry (NRCAF) at Jhansi, India and jointly organized by World Agroforestry Centre and NRCAF. **Training Consultative Workshop on ICRAF’s Capacity Development Strategy and**

ICRAF's South Asia Partners Capacity Need Assessment in the Field of Agroforestry – 2012 held in BRAC Centre, Mohakhali, Dhaka, Bangladesh and organized by Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh and World Agroforestry Centre, Nairobi, Kenya. **Training on Raising Resources for Research on Medicinal and Aromatic Plants (MAPs)**, 2005 held in New Delhi and organized by IDRC, Canada. **Training on Plant Transformation**, 2003 organized by Agriculture Biotechnology Centre, University of Peradeniya. **Training on Agricultural Research Management**, 2001 organized by the National Science Foundation, Postgraduate Institute of Agriculture in Collaboration with National Academy of Agricultural Research Management (NAARM), India. **Intensive Training on Environmental Impact Assessment (EIA)**, 2000 jointly organized by Central Environmental Authority and Centre for Environmental Studies, University of Peradeniya. **Training on Teaching Methods**, 1998 organized by Teaching Methods Unit, Faculty of Agriculture, University of Peradeniya. **Training on Environmental Economic Analysis of Projects**, 1998 organized by Asia Pacific Regional Environmental Economics Technical Assistance Project (APREETA) held at the Postgraduate Institute of Agriculture of University of Peradeniya.

2.4 Language Proficiency

	<u>Speak</u>	<u>Read</u>	<u>Write</u>
Sinhala	Good	Good	Good
English	Good	Good	Good

3. ACADEMIC/ADMINISTRATIVE POSITIONS HELD

3.1 Academic Positions in the Faculty

1. **Senior Professor in Crop Science**, Department of Crop Science, Faculty of Agriculture, University of Peradeniya (from 28 July 2017 - to date).
2. **Professor in Crop Science**, Department of Crop Science, Faculty of Agriculture, University of Peradeniya (from 28 July 2009 – 27 July 2017).
3. **Senior Lecturer (Grade I)**, Department of Crop Science, Faculty of Agriculture, University of Peradeniya (from 06 August 2001 – 27 July 2009).
4. **Senior Lecturer (Grade II)**, Department of Crop Science, Faculty of Agriculture, University of Peradeniya (from 08 May 1997 – 05 August 2001).
5. **Lecturer**, Department of Crop Science, Faculty of Agriculture, University of Peradeniya (from 01 September 1992 – 07 May 1997).
6. **Assistant Lecturer**, Department of Crop Science, Faculty of Agriculture, University of Peradeniya (from 31 August 1991 – 31 August 1992)

3.2 Administrative Positions

1. **Dean/Faculty of Agriculture**, University of Peradeniya (since 14 November 2015 to 13 November 2021, two consecutive terms)
2. **Acting Director/Postgraduate Institute of Agriculture (PGIA)**, University of Peradeniya (1 August 2017 to 6 November 2017).
3. **Head/Department of Crop Science**, Faculty of Agriculture, University of Peradeniya (from 15 September 2009 – 2012) and (from October 2015 to 13 November 2015).
4. **Member of the Governing Council of Hector Kobbakaduwa Agrarian Training and Research Institute**. Since 30 September 2020.
5. **Member of the Governing Council of University of Peradeniya**. Since 14 November 2015 to 13 November 2021.

6. **Member of the Senate of University of Peradeniya.** Since 15 September 2009.
7. **Chairman** of the **Agriculture Education Unit (AEU)**, **Agribusiness Centre (AbC)** and **Agricultural Biotechnology Centre (AgBC)** of Faculty of Agriculture, University of Peradeniya (November 2015 to November 2021).
8. **Member of the Board of Management of PGIA**, University of Peradeniya (January 2010-December 2012; November 2015 to November 2021).
9. **Member of the Board of Management of Postgraduate Institute of Humanities and Social Sciences (PGIHS)**, University of Peradeniya (January 2016 to November 2021).
10. **Chairman** (October 2004-2006 December), **Secretary** (November 2003 to October 2004) of the **Board of Study in Crop Science**, PGIA.
11. **Secretary** (November 2003 to October 2004) and Member of the **Board of Study in Agricultural Biology**, PGIA (January 1998-December 2000), (June 2003-October 2004) and (since December 2007).

4. SPECIAL ACADEMIC AND PROFESSIONAL RECOGNITIONS

4.1 International Academic and Professional Recognitions

1. Appointed as a member of the Technical Advisory Board for the South Asia Regional Restore Program of the Global EverGreening Alliance's South Asia program across India, Bangladesh, Nepal, and Sri Lanka. Since 2020.
2. Appointed as Honorary Professor of the Faculty of Silviculture and Forest Engineering at the Transylvania University of Brasov, Romania. The title of Honorary Professor is conferred based on the approval issued by the Administration Council of Transylvania University of Brasov, Romania (from 17 October 2018 to date).
3. Appointed as the Country Liaison Scientist to the World Agroforestry Centre (formally called as International Centre for Research in Agroforestry, ICRAF), Nairobi, Kenya (1st September 2004 to 31st December 2015).

4.2 National Academic and Professional Recognitions

1. Received Annual Research Excellence Award – Category III / Professor/Senior Professor – 2019 by Faculty of Agriculture, University of Peradeniya.
2. Chartered Biologist. Institute of Biology of Sri Lanka. From 24 September 2019.
3. Members of the Expert Committee appointed by the Secretary/Ministry of Environment on Project on Partnerships and Innovative Financing to Mainstream Biodiversity and Sustainable Land Management in the Wet and Intermediate Climate Zone of Sri Lanka since November 2020.
4. Member of the Steering Committee on Implementation of the National Biosafety Framework in accordance with the Cartagena Protocol (Biosafety Project; since 2018)
5. Member of the Steering Committee on Control of Fall Army Worm. Appointed by the Ministry of Agriculture since 2018.
6. Member of the Cabinet Appointed National Expert Committee on Biological Diversity of Ministry of Mahaweli Development and Environment for a period of 3 years from September 2016.
7. Member of the preparing of the long term plan for the Department of Agriculture appointed by Director of Seed Certification and Plant Protection Centre (SSCPPC) (April 2017).

8. Members of the Program and Technical Committee on Sri Lanka – Next: Blue Green Era and 5th Asia Pacific Climate Change Adaptation Forum (APCCA Forum) (June to October 2016).
9. Member of the Academic and Research Forum of Sri Lanka UN-REDD program (2015-2016).
10. Member of the Advisory Committee to the Department of Agriculture appointed by the Secretary, Ministry of Agriculture (since 24 February 2016).
11. Member of the National Committee on Forestry, Sri Lanka Council for Agricultural Research Policy (since 2015).
12. Member of the Research Advisory Committee of the Central Environmental Authority (since 2015)
13. Member of a committee appointed by Secretary of the Ministry of Agriculture to identify opportunities for importation of Walla patta to Sri Lanka. (July 2014).
14. Founder Executive Committee Member of the Sri Lanka Fruit Association appointed by the Secretary, Ministry of Agriculture and Director General of Agriculture (since 14 July 2014).
15. Member of National Advisory Committee on Use of Agro-ecological Information to Enhance the Agricultural Productivity in Sri Lanka by Director General of Agriculture, Sri Lanka. Since January 2014.
16. Member of the External Research Review Committee – Physiological Studies and Yield Forecasting of Coconut, Breeding and Micro Propagation of Coconut varieties, Genetic and Plant Breeding of Coconut Research Institute, Lunuwila, Sri Lanka. From 2010-2016.
17. Member of the Selection Committee of Rewards for Excellence in Coconut Research – 2012, Coconut Research Institute, Lunuwila, Sri Lanka. 2011.
18. Contributor to Award Winning Nava Goviya e-Learning program (won national and international award for e-Learning program conducted by CIC Agribusiness) (2011).
19. Received an award from Green Forest Association as recognition of service to environmental conservation in Sri Lanka. The award was presented by Minister of Environment and Natural Resources on 23 January 2010 at the John de Silva Memorial Theatre
20. Member of the Conservator of Forests (Research and Education) appointed group to prepare species management plan for *Cinnamomum capparukurundo* in 2008.
21. Member of the Conservator General of Forests appointed committee to study effect of establishment of teak plantation in Malsiripura in 2008.
22. Member of the Director General of Agriculture appointed committee on Evaluation of Impacts of Importation of Bush Type Highland Thai Kang Kung.
23. Adviser to *Jatropha* Cultivation project by Ministry of Agriculture and Agrarian Services. Request was made by the Secretary of the Ministry. Since July 2007.
24. Technical Expert to Audit Team to serve in the ISO 22000 certification panel by Sri Lanka Standards Institution (2007).
25. Member of the Technical Evaluation Committee of Evaluation of IEE reports (2007-2009).
26. Member of the National Plant Breeding Committee at Sri Lanka Council for Research in Agricultural Policy (CARP), 114/9, Wijerama Mawatha, Colombo 7. Since December 2005.
27. Member of the Technical and Legal Advisory Committee of the Crop Wild Relatives Conservation Project implemented by the Department of Agriculture in collaboration with Ministry of Environment and Natural Resources. Since May 2005.

28. Institutional Coordinator of FAO funded project on Establishment of a National Information Sharing Mechanism on the Implementation of the Global Plan of Action (GPA) for the Conservation and Sustainable Utilization of Plant Genetic Resources for Food and Agriculture (PGRFA). 2005-2006.
29. Invited Member to the National Task Forces for completion of the framework of Biodiversity Conservation Action Plan (BCAP) of Sri Lanka in 2003-04. Appointed and Coordinated by the Ministry of Environment and Natural Resources. Task Force No. 03: Access to Genetic Resources; Task force No. 5 on Impacts on biodiversity and Task Force No. 15 on information management.
30. Invited Reviewer of the International Treaty on Plant Genetic Resources of Food and Agriculture (PGRFA) in 2002. This was assigned by the Ministry of Environment and Natural Resources of Sri Lanka, and member of the subsequent committee on amendment of the treaty appointed by Deputy Director/PGRC. January 2003.
31. Member of the CEPOM - Biodiversity (Ministry of Forestry and Environment), which is the state policy coordinating, body with regards to biodiversity conservation in Sri Lanka. Since January 2001.
32. Member of the National Species Conservation Advisory Group (NSCAG) appointed by Ministry of Forestry and Environment. This advisory group acts as the advisory body to the CEPOM - Biodiversity. Since January 2001. In 2005, I was served as a member of the committee to prepare national species conservation strategy.
33. Member of the National Steering Committee on *In situ* Conservation of Crop Wild Relatives (CWR). From October 2000 - 2003. The steering committee has been appointed by the Ministry of Forestry and Environment of Sri Lanka to prepare a comprehensive action plan and a proper monitoring and evaluation mechanism for Crop Wild Relatives in Sri Lanka.
34. Roster Experts on Biodiversity. This was nominated by the Government of Sri Lanka.
35. Selected as the National Expert on Agroforestry by Ministry of Forestry and Environment to represent the Asian Regional Thematic Programme Network on Agroforestry and Soil Conservation (TPN2) and consultation on the preparation of the Convention to Combat Desertification (CCD) National Report (2000).
36. Member of the National Biodiversity Committee at Sarvodaya biodiversity program (from 1999 - 2003). This committee discuss and make policy decisions on training grassroots level peoples on various issues of biodiversity management and maintaining of community level biodiversity plots throughout the country (since 1998).

5. PROFESSIONAL EXPERIENCES AND SKILLS

5.1 Teaching and Examination

1. **Lecturer (since 1990) at the Department of Crop Science, Faculty of Agriculture and Visiting Lecturer (since 1997) of the Board of Studies in Crop Science, Agricultural Biology, Animal Science, Agricultural Economics and Agriculture Engineering, PGIA, University of Peradeniya.** *Responsibilities includes teaching students and preparation of teaching material, organizing field visits; supervising of research works, setting examination papers and marking them; conducting examinations for undergraduates and postgraduate students.*
2. **Visiting Lecturer**, at the Department of Biological Sciences, Faculty of Applied Sciences, Rajarata University of Sri Lanka (2006-2009); at the National Institute of Fisheries and Nautical Engineering, Sagara Viswa

Vidyalaya, Mattakkuliya (2003-2005); at the Department of Nutrition and Community Resources Management, Faculty of Applied Sciences I, Wayamba Campus, Rajarata University of Sri Lanka (1997-2002).

3. **Moderator of Examination Papers and External Examiner** Uva Wellassa University of Sri Lanka (2009-2012); Faculty of Agriculture, Rajarata University of Sri Lanka (2006-2012); Sabaragamuwa University of Sri Lanka (2000-2013); Department of Nutrition and Community Resources Management, Faculty of Applied Sciences I, Wayamba Campus, Rajarata University of Sri Lanka (1997-2002); Vavunia Campus, University of Jaffna (2010-to date).

5.2 Quality Assurance in Undergraduate Education

1. Member of the Internal Quality Assurance Unit – PGIA (since July 2020 to November 2021).
2. Member of the Management Committee of the Internal Quality Assurance Unit of University of Peradeniya.
3. Chairman (2016 to date to November 2021) of the Faculty Quality Assurance Cell (FQAC) now called Internal Quality Assurance Cell of Faculty of Agriculture (IQAC-FoA). The FQAC was established under my guidance with a unique composition linking all categories of staff towards the management of quality culture within the Faculty. FQAC under my leadership develop examination guidelines for the Faculty and all other quality assurance related documents.

5.3 Curriculum Development in Higher Education

1. Chairman (2014 to 2015) and member (from 2014 to date) of the Curriculum Development subcommittee of Faculty of Agriculture, University of Peradeniya (since 2009 and in 1998); and was an active member of the curriculum development of B.Sc. (Agricultural Technology and Management) at different levels of discussions (2003-2005).
2. Initiated south Asia's First Deans Committee meeting to develop a plan of actions for harmonization of curricula for agroforestry education in south Asia (since February 2009). Under this programme, a concept note has been prepared to harmonize agroforestry curricula for Sri Lanka to submit to University Grant Commission.
4. Develop curricula on Biodiversity and Non Parametric Statistics at the National Institute of Fisheries and Nautical Engineering, Sagara Viswa Vidyalaya (2003).
5. Member of the curriculum committee of the M.Sc. in Plantation Crop Management at the Postgraduate Institute of Agriculture (2010-2012).
6. Coordinator to develop curricula for Conservation of Crop Wild Relatives. This was requested from the Crop Wild Relatives Conservation Project implemented by the Department of Agriculture in collaboration with Ministry of Environment and Natural Resources (2007-2008).
7. Resource person to develop short course curricula for Forestry College of Forest Department under Forest Resources Management Project (14-16 November 2002 at the Hotel Tourmaline, Kandy and 10 December 2002 at Palawatta, Battaramulla).
8. Resource person to prepare curriculum for the Diploma in Agriculture programme (Year II) of Technical Colleges under Department of Technical Education and Training (2000).
9. Member of the curriculum committee of the M.Sc. in Plant Genetic Resources at the Postgraduate Institute of Agriculture (June, 1998 to October 1999).

10. Member of the curriculum committee of the M.Sc. in “Agroforestry” and “Environmental Forestry” at the Postgraduate Institute of Agriculture (1997-1998; 1999-2000, respectively).

5.4 Research and Training Experience

I have professional experiences and skills in **research** in the areas of building partnerships and multidisciplinary teams and their coordination, budgeting, evaluation, strategic planning and supervision of undergraduate and postgraduate students, **policy** on homegarden, conservation, germplasm management, forestry and agroforestry and climate change, and **fundraising** for educational and research activities.

5.4.1 Research Areas

1. **Tree Domestication and Improvement:** Studying genetic diversity, using morphological, biochemical and molecular markers and developing domestication strategies for forest, fruit tree, biodiesel and fuelwood trees and tree ferns for their utilization and conservation.
2. **System Approach in Agricultural Systems, Agroforestry and Homegardens and their Impacts on Climate Change:** Studying tank village system for their ecological, environmental and economic benefits and develop ecology based ecosystem approach to long term survival of cascade systems in Sri Lanka; Studying environmental services, climate resiliency, climate smart nature, carbon sequestration and improvement potential of agroforestry systems, including homegardens through woody interventions such as replacement, substitution, expansion and management.
3. **Biodiversity:** Assessment of pteridophyte diversity and development of guide to identify ferns of Sri Lanka; assessment of agrobiodiversity of various agricultural and agroforestry systems; development of bio prospecting protocols for selected medicinal plant biodiversity, assess potential of seed bombing techniques in rehabilitation of natural forests.
4. **Plant Invasion and their Impacts:** Quantitative assessment of invasiveness of alien invasive species; development of management plan for control of invasive species.

5.4.2 Research Grants/Projects Received

1. Collaborative partner of “Curriculum Development in Agroecology” Project. This is multi country Capacity Development project funded by Erasmus+ under the category of Cooperation for innovation and the exchange of good practices – Capacity Building in the field of Higher Education. Hue University and Vietnam National University of Vietnam, Benguet State University and Central Luzon State University of the Philippines, Rajarata University of Sri Lanka, Mendel University in Czech Republic, Polytechnic Institute of Coimbra of Portugal and Novel Group Sarl is a Vocational Training Center based in Gasperich, the new business center of Luxembourg are the other partners (2019-2023).
2. Collaborative partner of “Identification of Potential of Seed Bombing Techniques for Rehabilitation/reforestation of Natural Forest in Sri Lanka”. This is a national project of Sri Lanka Air force, Forest Department and MAS Holdings to identify the potential of seed bombing techniques in Sri Lanka. (2019- to date)
3. Collaborative investigator of Development Oriented Research (DOR) STEM project under the Accelerated Higher Education Expansion and Development Operation (AHEAD) titled “An Assessment of Economic and Environmental Feasibility of Alternative Agricultural Technologies to Restore

- Degraded Village Tank Cascade Systems of Dry Zone of Sri Lanka: A Case Study of Thirappane”. Rs. 40 million (2019-2021). Project leader: Prof. H.L.J. Weerahewa. Ongoing.
4. Collaborative investigator of National Science Foundation funded target oriented multi-disciplinary research grant on “Comparative Analysis of Climate-Resilient Biodiversity of Home Garden ecosystems in Different Agro-ecological Regions of Sri Lanka”, Rs. 40 million (2018-2020). Project leader: Prof. G.L.L.P. Silva. Ongoing.
 5. Principal Investigator of the project on “Molecular and biochemical characterizations of Sri Lankan Cinnamon and their wild relatives and expression analysis of major biochemical genes under different environmental conditions and plant parts to enhance utilization value of cinnamon in Sri Lanka” funded by the Ministry of Primary Industries through NSF. Rs. 44.6 million (2017-2020). Ongoing.
 6. Principal investigator of “Identification and establishment of baseline information of socio-economic status and householders and agrobiodiversity of different agroecosystems of Newunhella”. GEF funded project managed by Department of Agriculture. Rs. 1.276 million (2015-2016). Successfully completed.
 7. Collaborative investigator of National Research Council funded target oriented multi-disciplinary research grant 2014 (NRC 14-24) on “Ensuring food security through developing climate smart crop varieties and cultivation techniques in Sri Lanka”, Rs. 49.5 million (2014-2019). Project leader: Dr. WMW Weerakoon. Ongoing.
 8. Project leader of APN Funded Project on “Scientific capacity development to strengthen informed-decision making for improved climate policy formulation and implementation in south Asian countries”, US \$ 64,000 (July 2015 to June 2017). Ongoing.
 9. Collaborative investigator of APN Funded Project on “Building climate resilience in farming systems in sloping lands of south Asia”, US \$ 90,000 (July 2015 to June 2017). Project leader: Prof. B Marambe. Ongoing.
 10. Principal investigator of “Quantification of pollinators and their role in pollination of selected tree species in Sri Lanka. Funding was provided by Biodiversity Secretariat of Ministry of Environment and Natural Resources of Sri Lanka, Rs. 0.3 million (2014/15). Successfully completed.
 11. Collaborative investigator of “Collection, characterization and evaluation of *Lasia spinosa* (L.) Thw. (Kohila – Lasia) germplasm for its conservation and improvement as a native vegetable crop for Sri Lanka. Funding was provided by University of Peradeniya, Rs. 0.7 million (2014-2015). Successfully completed.
 12. Principal investigator of “Identification and establishment of baseline information of socio-economic status and householders and agrobiodiversity of different agroecosystems of Udukumbura area”. GEF funded project managed by Department of Agriculture, Rs. 1.276 million (2013-2014). Successfully completed.
 13. Collaborative Investigator of Leverhulm Project of “International Network on Preserving Safety and Nutrition of Indigenous Fruits and their Derivatives” (2011-2013). Successfully completed.
 14. Collaborative Investigator of Nagao Natural Environmental Foundation, Japan, funded study on “Identification of diversity, habitats, population distribution and conservation status of tree ferns (Cyatheaaceae) in Sri Lanka. (2011-2013). Principal Investigator: Dr. RHG Ranil. Successfully completed.
 15. Collaborative Investigator of NSF funded research project on “Economic, Agronomic and Environmental Feasibility of Producing Biodiesel from *Jatropha* in Sri Lanka”, Rs. 2.95 million (2010-2013). Successfully completed.

16. Collaborative Investigator of APN Funded Project on “Vulnerability of homegarden systems to climate change and its impacts on food security in South Asia”, US \$ 75,000. (2010-2013). Principal Investigator: Prof. B Marambe. Successfully completed.
17. Collaborative Investigator of Sri Lanka Conservation and Sustainable Use of Medicinal Plants project funded (through IUCN) on “Development of propagation and nursery techniques for *Cassia senna* (Senehekola), *Vallariana mooni* (Lanka Thuwarala) and *Trachyspermum roxburghianum* (Asamodagam)”, Rs. 387,725. Principal Investigator: Prof. HPM Gunasena. Successfully completed.
18. Principal Investigator of Southampton Centre for Underutilized Crops funded research project on “Collection, characterization, conservation and propagation for distribution of quality planting material of selected underutilized crops in Sri Lanka”, £ 5,000. Successfully completed.
19. Principal Investigator of development of strategy for bio prospecting for the Ministry of Environment and Natural resources, Rs. 380,000. Successfully completed.
20. Principal Investigator of Ministry of Environment and Natural Resources through National Species Conservation Advisory Group funded research project on “Identification of biodiversity of Pteridophytes in Sinharaja and Adams Peak forests”, Rs. 200,000. Successfully completed.
21. Principal Investigator of NSF funded research project on “Identification of habitat and reproduction of *Cyathea sinuata*, *Cyathea hookeri* and their possible hybrid and their characterization in Kanneliya and Singharaja MAB reserves for their conservation” Rs. 1.6848 million (2006-2009). Successfully completed.
22. Principal Investigator of CARP funded research project on “Domestication, of underutilized fruit trees” Rs. 5.1022 million. (2004-2007). Successfully completed.
23. Principal Investigator of CARP funded research project on “Domestication, improvement and value added product development from Nelli (*Phyllanthus emblica*)”, Rs. 2.1654 million (2004-2007). Successfully completed.
24. Collaborative Investigator of CARP funded research project on “Collection, characterization, conservation and utilization of Wood apple (*Limonia acidissima* L.) and Beli fruit (*Aegle marmelos* (L.) Correa) germplasm in Sri Lanka”, Rs. 2.77 million (2003-2006). Principal investigator: Dr. IP Wickramasinghe. Successfully completed.
25. Collaborative Investigator of Sri Lanka Conservation and Sustainable Use of Medicinal Plants project funded (through IUCN) on “Identification of farming systems for inclusion of medicinal plants”, Rs. 800,000. Principal Investigator: Prof. KGA Goonesekera. Successfully completed.
26. Collaborative Investigator of University of Peradeniya funded research project on “Domestication of *Gmelina arborea* through selection and improvement”, Rs. 315,000 (2002-2003). Principal investigator: Dr. T Sivananthawerl. Successfully completed.
27. Principal Investigator of NSF funded research project on “Identification of genetic variation and reproductive biology of *Garcinia quaesita* for its domestication”, Rs. 821,845 (2001-2004). Successfully completed
28. Collaborative Investigator of NSF funded research project on “Identification, evaluation and improvement of processing and storage techniques of selected underutilized fruit trees”, Rs. 385,171 (2000-2004). Principal investigator: Dr. KSP Amaratunga. Successfully completed.
29. Principal Investigator of University of Peradeniya funded research project on “Study of reproductive biology and practical control measures of *Myroxylon balsamum*”, Rs. 52,500 (1999-2000). Successfully completed.

30. Principal Investigator of University of Peradeniya funded research project on “Identification of plus trees of *Artocarpus heterophyllus* in Kandy district”, Rs. 14,250 (1998-2000). Successfully completed.
31. Collaborative researcher on ICRAF South East Asia funded research on “Vegetative propagation of *Artocarpus heterophyllus*”, US \$ 3,500 (1997). Successfully completed.

5.4.3 Research Supervision

5.4.4.1 Undergraduate Level

Over 50 undergraduates completed their semester long final year research projects under my guidance and supervision. Five undergraduates at Faculty of Applied Sciences, University of Wayamba and five undergraduates of Faculty of Agriculture, University of Jaffna also completed their final year projects under my supervision. In each year, 1-3 undergraduates of Faculty of Agriculture, University of Peradeniya conducting their final year research projects under my supervision.

5.4.4.2 Postgraduate Level

The following candidates successfully completed their Ph.D. degrees under my supervision.

1. K.N. Kannangara (2020) “Inter-specific Hybridization between *Capsicum annuum* and other *Capsicum spp.* (*Capsicum chinense* and *Capsicum frutescens*) for introgression of virus resistance”. PhD Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as a supervisor.
2. S. Saruja (2020) “Micro propagation and production of agarwood fragrance compounds by plant cell cultures of *Gyrinops walla*”. PhD Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as a Supervisor.
3. M.A.L.N. Mallawaarachchi at (2019) “Antioxidant Efficacy, Total Phenolic Content and Total Anthocyanin Content of Underutilized Fruit Species Grown in Sri Lanka”. PhD Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as a supervisor.
4. E. Azad (2017) “Genetic variation of *Cinnamomum zeylanicum*”. Faculty of Agriculture, University of Ruhuna. - Student from Bangladesh. Served as a Supervisor.
5. K.T. Premakantha (2015) “Large area inventory of tree resources outside forests”. PhD Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as the Senior Supervisor.
6. S.M.P. Chandra Padmini (2014) “Morphological and chemical characterization of soursop (*A. muricata* L.) in Sri Lanka. PhD Thesis, Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as the Senior Supervisor.
7. R.H.G. Ranil (2010) “Identification of habitat and reproduction of *Cyathea sinuata* and *Cyathea hookeri* and their possible hybrid (*C. sinuata* x *C. hookeri*) and their characterization in Kanneliya and Sinharaja MAB reserve for their conservation”. PhD Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as the Senior Supervisor.
8. J.P.D. Ruckshanthi (2007) “Morphological, molecular and chemical characterization and reproductive biology of *Munronia pinnata* (Wall.) Theob”. PhD Thesis, Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as the Senior Supervisor.

The following candidates successfully completed their M.Phil./M.Sc. degrees under my supervision.

1. N.M.N. Liyanage (2021) "Different tissue parts at different maturity stages in biosynthetic gene expression and biochemical composition of *Cinnamomum zeylanicum* Blume". M.Phil. Thesis. Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka. Served as a Supervisor.
2. S.M. Amarathunga (2021) "Botanical and economic analysis of selected Salacia species in lowland wet zone in Sri Lanka.". M.Sc. Thesis. Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka. Served as a Supervisor.
3. N. Jayasundara (2020) "Assessment of Agronomic Feasibility of Cultivation of *Jatropha* under Mid Country Wet Zone Conditions in Sri Lanka". M.Sc. Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as a Supervisor.
4. S.K. Weerasinghe (2019) "Pineapple (*Ananas comosus* var. *comosus*) improvement by hybridization". M.Phil. Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as Supervisor.
5. K. Jayawanan (2017) "Environmental services of homegarden agroforestry in Jaffna district". M.Phil. Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as the Senior Supervisor.
6. P. Sivashankar (2016) "Economic analysis of *Jatropha* bio-diesel production in Sri Lanka". M.Phil. Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as a Supervisor.
7. T.A.B.D. Sanjeewa (2014) "Morphological and genetic characterization and ecological distribution of *Terminalia cebula* Retz. in Sri Lanka". M.Phil. Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as a Supervisor.
8. S. Arularathnam (2011). "Effect of fertilizer application and source of planting material on growth and tuber development of *Boerhavia diffusa* L.". M.Phil. Thesis. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka. Served as the Senior Supervisor.
9. M.R.L. Thanthirige (2011) "Genetic differentiation and development of varietal specific AFLP markers for some *Artocarpus heterophyllus* Lam. varieties in Sri Lanka". M.Sc. Thesis, Institute of Biochemistry, Molecular Biology and Biotechnology, University of Colombo, Sri Lanka. Served as a Supervisor.
10. T.M.A. Tennakoone (2009) "Traditional agriculture and ecosystem management techniques for the enhancement of agriculture". M.Sc. Thesis, University of Kelaniya, Sri Lanka. Served as the Senior Supervisor.

At M.Sc. level (by course work) at the PGIA, over 30 postgraduates completed their M.Sc. programmes (in Agroforestry, Environmental Forestry, Natural Resources Management, Crop Science, Plant Genetic Resources) under my supervision.

At present, the following candidates are reading for their Ph.D./M.Phil. under my supervision.

1. W.A.M. Lowe at the PGIA. Title of the Ph.D. thesis "Comparative analysis of climate-resilient biodiversity and resilience indicators of homegarden ecosystems in different agro-ecological regions of Sri Lanka. 2019. Senior Supervisor.

2. B.S. Bandusekara at the PGIA. Title of the Ph.D. thesis Characterization of Genus *Cinnamomum* in Sri Lanka. 2019. Senior Supervisor.
3. H.M.B.S. Herath of University of Sri Jayawardenapura at the PGIA. Title of the Ph.D. "Spatial and Temporal Dynamics of "Trees Outside Forests Sources", their Environmental and Socio-Economic Implications". 2015. Senior Supervisor.
4. A.V.C. Abayagunasekera of Rice Research and Development Institute of Department of Agriculture at the PGIA. Title of the Ph.D. "Evaluating genetic resources of an endemic wild rice species, *Oryza rhizomatis* Vaughan for defeating water scarcity in rice cultivation". 2014. Supervisor.
5. W.M.R. Kumari of Field Crops Research and Development Institute of Department of Agriculture at the PGIA. Title of the Ph.D. "Analysis of genetic diversity of local finger millet (*Elusine coracana* (L.) Gaertn Germplasm accessions to develop improved varieties for dry land farming in Sri Lanka". 2015. Senior supervisor.
6. N.S. Galearachchi at the PGIA. Title of the M.Phil. Effects of Auxin, Cytokinin and Gibberellin treatments on stimulation of *Mangifera indica* (L) off-season anthesis. 2019. Senior Supervisor.
7. H.A.B.M. Hathurusinghe at the PGIS. Title of the M.Phil. Flower and Bark Development in Cinnamon (*Cinnamomum zeylanicum*): Histology and Gene Expression. 2020. Supervisor.

5.5 Reviewing of Scientific Papers and Proposals

The Journal of Agricultural Sciences which is an International Journal published by Sabaragamuwa University of Sri Lanka (2005-2006, 2008); The Sri Lanka Forester published by the Forest Department of Sri Lanka (2003-2007); The Journal of National Science Foundation of Sri Lanka, published by the National Science Foundation of Sri Lanka (2003, 2006, 2008, 2012, 2014); The Tropical Agricultural Research which is an International Journal published by the Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka (2001-2017); The Annual Symposium of the Department of Agriculture, (ASDA) published by the Department of Agriculture, Sri Lanka (2001-2017); the Annual Symposium of Department of Export Agricultural Crops (ASMEC) (2005-2016); Reviewer of Research Proposals submitted to (i) the Sri Lanka Council for Agricultural Research Policy and (ii) National Science Foundation of Sri Lanka.

5.6 National and International Consultancies

1. Selected as the National Agroforestry Expert (team leader) to establish tea and coconut based agroforestry models for sustainability of tea and coconut based landscape through partnership development and capacity building project funded by the Netherlands (2021-22).
2. Selected as a team member of Developing food loss reduction pathways through smart business practices in mango and tomato value chains in Pakistan and Sri Lanka project funded by the Australian Centre for International Agricultural Research, Australia (2021-23).
3. Member of the team to prepare a Five-year Strategic Plan (2020-25) for the Tea Sector, Ministry of Plantation Industries, Sri Lanka (2019-20).
4. Consultant to Policy Research in the Area of "Technology Adoption", Agriculture Sector Modernization Project of Ministry of Agriculture (June-December 2017).
5. National Consultant to Project Preparatory Grant of UNEP-GEF Project on Healthy Landscapes: Managing Agricultural Landscapes in Socio-ecological Sensitive Areas to Promote Food Security, Wellbeing and Ecosystem Health (June-December 2017).

6. National Consultant to prepare country report on Biodiversity for Food and Agriculture by FAO in collaboration with Department of Agriculture (1 July – 30 September 2015).
7. Team leader and Consultant to update Biodiversity Profile and to Prepare Climate Change Adaptation Action Plan (2015-2018) for the Western Province of Sri Lanka (January to July 2014).
8. Impact assessment consultant to Eastern Re-awakening Project carried out in 10 districts by the Ministry of Economic Development in 2010 (2011).
9. Capacity and Training consultant to the Eastern Re-awakening Project carried out in 16 districts by the Ministry of Economic Development (2011).
10. National Consultant – Forest Genetic Resources by FAO to draft the National Report on Forest Genetic Resources for the State of the World's Forest Genetic Resources in collaboration with Forest Department (1-31 December 2011).
11. National Agrobiodiversity Consultant to UNEP-GEF Project on Mainstreaming Biodiversity Conservation for Sustainable use of improved human nutrition and wellbeing coordinated by Ministry of Environment (September – December 2010).
12. Selected to Develop of National Action Plan on Conservation and Utilization of Agrobiodiversity and also to Coordinate Commemoration of International Day for Biological Diversity 2008. The Action Plan was presented to Ministry on 16th May 2008.
13. Consultant to develop case studies on the Special Program for Food Security in Asia: Phase 1 - Sri Lanka (August 2006 – February 2007, GCSP/SRI/ 049/jpn) and contracted by FAO.
14. Consultant ecologists to the Habitat Enrichment Phase II of the ADB Funded Protected Area Management and Wildlife Conservation Project of Environment Consultancy and Management Services (Pvt) Ltd. from January 2005 to January 2006.
15. Consultant to draft National Biosafety Framework for Sri Lanka in 2004 for Ministry of Forestry and Environment.
16. Consultant ecologists to the turfing project for the slope protection of the Colombo-Katunayeke express way project of Dawoo-Keangnam Joint Venture. from March 2002 to April 2003.
17. Consultant (Team Leader) to develop bio prospecting and benefits sharing protocols to Sri Lanka. This is an agreement with the Ministry of Forestry and Environment to prepare biological diversity status report to Sri Lanka. (January -December 2001).
18. Consultant (and Team Leader) on conducting IEE and EIA on small/mini-hydropower, agriculture, land development and construction project activities.
19. Consultant to Helvetas Sri Lanka Swiss Association for International Cooperation for (a) external evaluation on Conservation, production and utilization of plant genetic resources (PGR) project and (b) editing of book on “Sustainable farming through traditional knowledge” (from October 2000 to March 2002).
20. National Consultant to development of short course on “Biodiversity and Conservation of Indigenous Medicinal Plants”. The consultancy between PGIA, University of Peradeniya and Danish Agricultural Education Services (DANES A/S), Denmark involved with flush out content of the short course, identify possible resource persons and target groups for the course.
21. Consultant to prepare the second national report on biodiversity for Convention on Biological Diversity in 2001 for Ministry of Forestry and Environment. <http://www.cbd.int/doc/world/lk/lk-nr-02-en.pdf>

22. Consultant to IUCN medicinal plants conservation project on farming system and propagation research. from October 2000 to 2002.
23. National consultant to develop short course curriculum on Biodiversity Conservation of Indigenous Medicinal Plants for Postgraduate Institute of Agriculture, University of Peradeniya under DANES A/S, Denmark collaboration. "Report available as Sloth, B., Sumanasinghe, V.A. and **Pushpakumara, D.K.N.G.** (1999) Report on development of new short course on biodiversity conservation of indigenous medicinal plants. DANES A/S, Denmark" for details.
24. International Consultant to the Forestry Compendium, CAB International, Wallingford, Oxford, UK. November, 1997 to March, 1998.

5.7 Memberships and Positions of Professional Societies

1. Member of the Ecological Society of America (since July 2021).
2. Professional Member of Sri Lanka Institute of Agriculture (SLIAG) (from 2020).
3. Honorary Member of the Sri Lanka Ecological Association (SLEA), since 2019.
4. Member of the Institute of Biology, Sri Lanka (since 2017), Chartered Biologist (since 2019).
5. Founder executive committee member of Sri Lanka Fruit Association affiliated to Department of Agriculture and Ministry of Agriculture, Sri Lanka (since July 2014).
6. Member of the Botanical Society of America (since August 2007).
7. Life member of Sri Lanka Organization of Agriculture Professionals (SLOAP) (2007-2020) later replaced by Sri Lanka Institute of Agriculture (SLIAG).
8. Member of the Mountain Forest Forum of South Asia (since 2006).
9. Secretary to the Federation of Peradeniya University Teachers Association (FPUTA). (July 2006 to July 2007).
10. Assistant Secretary to the Federation of University Teachers Association (FUTA). (July 2006 to July 2007).
11. Secretary to the Peradeniya University Agriculture Teachers Association (PUATA) (From January 2006-September 2009).
12. Member of the National Environment Forum of Central Environmental Authority of Sri Lanka (from September 2004).
13. Life member of the Soil Science Society of Sri Lanka. Since 2001.
14. Life Member of the Applied Statistics Association of Sri Lanka (since January 1999).
15. Life Member of the Sri Lanka Association of the Advancement of Science (since August 1999).
16. Member of the Commonwealth Forestry Association, United Kingdom (May 1997-2004).
17. Member (since May 1997), Secretary (1997-2003) and National Coordinator (Since 2004) of the National Multipurpose Tree Species Network in Sri Lanka.
18. Life Member (since June 1997) and Assistant Treasurer (since January 1999) of the National Agricultural Society of Sri Lanka.
19. Life Member of the Alumni Association of the Faculty of Agriculture, University of Peradeniya (since December 1997), Secretary (December 1999 to January 2001) and President (since 2009).

5.8 Invited Speaker and Resource Person to National and International Programs.

1. Invited guest lecturer to Compulsory Training Workshop for Indian Forest Services Officers on "Agroforestry for boosting Tree Cover and Livelihood Enhancement" from 22nd and 26th November, 2021 at the Forestry Research Institute, Dehradun, India.
2. Invited guest lecturer to Superintendents of Janatha Estate Development Board of Ministry of Public Enterprise Development held on 5 January 2017 at the TRI Auditorium, Hantana organized by Chairman, JEDB for motivation of superintendents of JEDB.
3. Resource person of the Fifth, Fourth, Third, Second and First Study Abroad Program on Sustainable Tropical Agriculture Systems of Sri Lanka offered to Michigan State University, USA. 2017, 2015, 2014 and 2013.
4. Resource person of the Induction Program for the Academic Staff of University System offered by the Staff Development Centre of University of Peradeniya. 2019, 2018, 2017, 2016, 2015, 2015, 2013.
5. Resource person to workshop on "Sustainable Development Goals – Status of Sri Lanka" held on 19 January 2017 at the Hotel Waters Edge and organized by Centre for Environmental Justice, Dikonia and Friends of the Earth, Sri Lanka.
6. Resource person to workshop on "Sustainable Development Goals – Identification of Climate Change and Environmental Management" held on 16-17 December 2016 at the Hotel Tree of Life and organized by Centre for Environmental Justice, Dikonia and Friends of the Earth, Sri Lanka.
7. Resource Person to APFNet Workshop on Forestry and Rural Livelihood Development held 1-14 November 2016 at Negambo, Sri Lanka and organized by APFNet Kuming Training Centre (APFNet-KTC) and Forest Department, Sri Lanka.
8. Invited guest speaker for opening speech at the Sri Lanka Next – Blue Green Era, an International Research Symposium on Blue Green Economy held at 18 October 2016 at the BMICH and organized by the Ministry of Mahaweli Development and Environment.
9. Resource Person to practical training program for GCE A/L teachers of the Central Province on production of quality planting material and their establishment organized by Agriculture Education Unit of Faculty of Agriculture from 30 March to 4 April 2015.
10. Invited Guest Lecture on "Central role of people in the sustainable environmental management, and sustainable development" to the Commemoration of the World Environment Day on 5th June 2016 organized by the Ministry of Mahaweli Development and Environment and held at Matale, Sri Lanka.
11. Invited Guest Lecture on "Understanding the forest values and depleting and degrading forests" to the Commemoration of the International Day of Forest on 21st March 2015 organized by the Forest Department of Sri Lanka and held at the Sri Lanka Forestry Research Institute, Sandathanna, Nuwara Eliya.
12. Resource person of the Training program on Participatory Approaches for Managing Agricultural Biodiversity – Training for Trainers held at the Plant Genetic Resources Centre, Gannoruwa, Peradeniya from 26-29 April 2016.
13. Resource Person to training program on rehabilitation of degraded forests of upcountry wet zone and intermediate zone of Sri Lanka organized by Forest Department of Sri Lanka and conducted at the Sri Lanka Forestry College from 9-12 February 2016.
14. Resource person to Workshop on Scientific Writing-2015 held at the Regional Agricultural Research and Development Centre, Kilinochchi on 23-24 February 2015 organized by Department of Agriculture (DOA) and the In-service Training Centre, Gannoruwa, on 18-19 February 2015. This program conducted to train DOA scientists.

15. Resource Person of the Study Abroad Program on Organic Farming Systems of Sri Lanka offered to students of Austria organized by Agriculture Education Unit of Faculty of from 9-19 February 2015.
16. Resource Person to training program on field officers of Hadabima Authority of Sri Lanka organized by Hadabima Authority of Sri Lanka Divinagum Training Centre, Pilimathalawa on 26-27 December 2014.
17. Resources person to International Symposium on Biodiversity, Food and Nutrition conducted on 8th December 2014 in Colombo organized by Wayamba University of Sri Lanka and UNEP/FAO/GEF Project.
18. Resource person of the Capacity Building workshop on Participatory Approach for Crop Improvement held at the Inservice Training Institute, Gannoruwa and conducted by the Green Movement of Sri Lanka.
19. Resource person to a 45-day residential training program on general agriculture conducted by AEU of Faculty of Agriculture for young farmers identified by the Ministry of Economic Development. The program conducted from 8 October to 6 December 2013.
20. Resource person to "Traditional Vegetable Seed Production" conducted by the Department of Agriculture, Peradeniya for Officers of Increasing Availability of Traditional Vegetable Project held on 31 May 2013 at the Inservice Training Institute, Gannoruwa.
21. Resource person of the Master of Development Practice Program in the Department of Economics and Statistics, Faculty of Arts University of Peradeniya. Since 2013.
22. Resource Person of the training program on species identifications techniques and plant survey methods offered to Officers of Forest Department by Sri Lanka Forestry Institute, Moons Plains, Nuwara Eliya from 2-3 May 2013.
23. Resource person to awareness workshop on extinction of essential medicinal plants for small and medium farmer entrepreneurs conducted by Ayurveda Department of Central province on 11 December 2012 held at the Secretariat Office of Governors of Central province.
24. Resource person to Level 2 Certificate Training Program for Middle Level Agriculturists of Republic of Maldives held at the Hanimadhoo Agriculture Centre, Hanimadhoo, Maldives from 24th April-30th April 2010. The program was organized by Ministry of Agriculture and Fisheries of Maldives and the south Asian office of World Agroforestry Centre.
25. Resource person to the Development of School Gardens through the Parisarayai Sisu Sawiyai program organized by the Ministry of Agriculture and Environment of the Central province and conducted by the AEU of the Faculty of Agriculture on 5th December 2009.
26. Resource person to Workshop for Prioritization and Selection of Forest Areas for Initiating Conservation Actions held at Centre for Banking Studies, Rajagiriya on 7th April 2008, organized by Crop Wild Relatives Project and Forest Department.
27. Joint coordinator of organizing South Asia Agroforestry Network (SAAN) to develop regional collaborative program for research and institutional networking on agroforestry at the Hotel Topaz, Kandy, Sri Lanka from 28-30 June 2007 with participation of officials from Bangladesh, Bhutan, India, Kenya, Nepal, Pakistan and Sri Lanka.
28. Resource person to Training Workshop for Extension Personal of Forest Conservation Department held at Forest Training Institute, Sandathanna, Nuwara Eliya on 6 September 2007, organized by Crop Wild Relatives Conservation Project of Sri Lanka.
29. Resource person to Workshop on Collection of Information on Use of Traditional Knowledge in Moragahakanda area held at Divisional Secretariat Office, Naula on 5th April 2007, organized by Ministry of Environment and Natural Resources.

30. Resource person to Workshop on Scientific Writing-2007 held at the In-service Training Centre, Gannoruwa, on 26 March 2007 and organized by Sri Lanka Council for Agricultural Research Policy. This program conducted to train NARS scientists.
31. Resource person to New Approaches and Technologies for Sustainable Agricultural Development in Sri Lanka organized by Sri Lanka Council for Agricultural Research Policy, Department of Agriculture and Michigan State University at the In-service Training Centre, Gannoruwa from 12-13 December 2006. This program conducted to follow up activities of expert consultation workshop on biotechnology.
32. Resource person to Workshop for Developing an Information Management Sharing Policy for Bandaranaike Memorial Ayurvedic Research Institute (BMARI) at BMARI on 14 December 2006.
33. Resource person to Training Workshop on Crop Wild Relatives Conservation and Use held from 11-12 September 2006 at Kanneliya Forest Reserve Training Centre, Kaneliya organized by Crop Wild Relatives (CWR) Conservation Project of Sri Lanka. This program conducted to train researchers in forestry on CWR.
34. Resource person to South Asian Regional Training Program on New Frontiers in Agroforestry Tree Planting Material Utilization organized and held at the ICRAF Regional Office, New Delhi, India from 28 August-2 September 2006. This program conducted to train trainers on tree germplasm and their utilization from research institutes of south Asia.
35. Resource person to Residential Training Program organized by UNDP and conducted at the Faculty of Agriculture, University of Peradeniya from June-July 2006. This program conducted to train agricultural extension field officers from the Republic of Maldives.
36. Resource person to Awareness Program on Biodiversity-Conservation for Advanced Level Teachers of Polonnauwa District held at the Wildlife Training Centre, Giritale from 28-30 June 2006, organized by Ministry of Environment.
37. Resource person to Workshop on Linking Crop Diversification to Supermarkets organized and held at Sri Lanka Council for Agricultural Research Policy on 9 May 2006. This program conducted to enhance market opportunities for underutilized crops.
38. Resource person to Certificate Course on Applied Statistics organized and held at Postgraduate Institute of Agriculture, University of Peradeniya from 16-27 January 2006. This program conducted to train scientists from various fields.
39. Resource person to Expert Consultation on Agricultural Biotechnology Development in Sri Lanka organized and held at the Sri Lanka Council for Agricultural Research Policy from 19-21 December 2005. This program conducted as a planning session with experts involved to develop biotechnology sector in Sri Lanka.
40. Resource person to the Training Workshop on Biodiversity Assessment Techniques and Red Listing organized by the Ministry of Environment and IUCN and held at Hilltop Hotel, Kandy from 12-15 December 2005. This program conducted to train government officers, researchers and NGO personals on biodiversity assessment and red listing.
41. Resource person to Workshop on Plant Genetic Resources (PGR) Conservation and Management organized and held at the Plant Genetic Resources Centre, Department of Agriculture from 30 June to 1 July 2005. This program conducted to train scientists for research institutes and universities on PGR conservation and management.
42. Joint Coordinator and Resource person to the first Regional (SAARC) Training Program on Biodiversity and Conservation of Indigenous Medicinal Plants held at Postgraduate Institute of Agriculture (PGIA) from 25 March-24

- April, 2003, organized by PGIA, and Ministry of Foreign Affairs, Sri Lanka. This program conducted to train scientists in SAARC countries (Sri Lanka, Bhutan, Laos, Myanmar, Afghanistan, Nepal and Vietnam) on conservation and sustainable utilization of medicinal plants.
43. Joint coordinator and resources person of the Regional Workshop-cum-training Program on tree domestication held from 9-10 March 2005 at the Postgraduate Institute of Agriculture, University of Peradeniya. This was jointly organized by Board of Study in Crop Science, Postgraduate Institute of Agriculture, National Multipurpose Tree Species Research Network of Sri Lanka and World Agroforestry Centre, Nairobi, Kenya to train scientists involved with Tree Domestication in south Asian countries.
 44. Resource person to Training Program on Biodiversity Conservation and Eco Tourism for Sustainable Management of Forest Resources held in Kandy on 28 November 2003, organized by Forest Department. This program conducted to train senior staff of the Forest Department.
 45. Resource person to Short Course on Sampling Techniques, Survey Design and Analysis organized and held at Postgraduate Institute of Agriculture, University of Peradeniya from 22-26 September 2003. This program conducted to train scientists in various research institutes of Sri Lanka.
 46. Resource person to Workshop on Scientific Writing held at In-service Training Centre of the Department of Agriculture on 22 August 2003, organized by National Science Foundation. This program conducted to train young scientists in the field of agriculture.
 47. Resource person to Regional Training Program on Application of Statistics in Agricultural, Medical and Biological Sciences held at Postgraduate Institute of Agriculture PGIA), University of Peradeniya from 6 May to 6 June 2003, organized by PGIA and Ministry of Foreign Affairs, Sri Lanka. This program conducted to train scientists work in the field of agriculture, medical and biological fields.
 48. Resources person to Awareness Program on Genetically Modified Organisms (GMO), Genetically Modified Food (GMF) and Risk Assessment and Management for various stakeholders conducted by Biosafety Framework Development Project, Ministry of Environment and Natural Resources of Sri Lanka from 2003-2007. More than 10 programs conducted to train personal from various stakeholders on risk of GOM, GMF.
 49. Resource person to Training Program on Biodiversity Conservation and Eco Tourism for Sustainable Management of Forest Resources held in Ella Adventure Park, Badulla from 27-28 November 2002, organized by Forest Department. This program conducted to train junior staff of the Forest Department.
 50. Joint Coordinator and Resource person to the first SAARC Regional Training Program on Biodiversity for A/L teachers in SAARC countries held at Culture Club, Dambulla from 28 April-7 May 2002, organized by the Ministry of Forestry and Environment and Agribusiness Centre of Faculty of Agriculture, University of Peradeniya. This program conducted to train A/L science teachers in SAARC countries.
 51. Joint Coordinator and Resource person to Training Program on Biodiversity for A/L Teachers in Kandy district held at TREE Centre, Wildlife Trust, Randenigala from 2-6 February 2001, organized by the Ministry of Forestry and Environment, Department of Education and Agribusiness Centre of Faculty of Agriculture, University of Peradeniya. This program conducted to train A/L science teachers in Kandy district.
 52. Resource person in conducting Training Program on Sustainable Development through Biodiversity Conservation organized and held at Sarvodaya Education Development Institute at Bandaragama from 2000-2002. 24 programs conducted to train district level trainers of Sarvodaya biodiversity program.

53. Resource person to Third Country Training Program in Plant Genetic Resource (PGR) Conservation and Management (from 2000-2003) held at Plant Genetic Resources Centre, Gannoruwa in Collaboration with JICA and Ministry of Foreign Affairs of Sri Lanka. More than 10 programs conducted to train PGR management staff (science or agriculture graduates) of Bangladesh, Myanmar, Bhutan, Cambodia, Laos and Sri Lanka.
54. Resource person in Diploma Course in Plantation Management Module on Basic Agricultural Sciences organized and held at Faculty of Agriculture, University of Peradeniya. This course conducted to train junior level management staff of plantation sector. Two programs conducted from 12-17 September 1998 and 18-20 July 2002.
55. Resource person to Workshop on National Action Program to Combat Land Degradation in Sri Lanka held at Construction Equipment Training Centre, Palawatta, Battaramulla, Sri Lanka from 18-19 December 2001, organized by Natural Resources Management Division of Ministry of Transport and Environment. This program conducted as a planning session with stakeholders involved to identify options to combat land degradation in Sri Lanka.

6. SCIENTIFIC PUBLICATIONS AND COMMUNICATIONS

6.1 Peer Reviewed National and International Journal Articles

1. Rajapaksha, R., Chamara, R., Dissanayaka, S., Eeswara, J., **Pushpakumara, G.**, Wijesooriya, G. and Jayasekara, R. (2021) Potential of spineless *Lasia spinosa* (L.) Thwaites as a promising vegetable from neglected indigenous crop genetic resources for sustainable agriculture. *Journal of Crop Improvement* (under review).
2. Samarakoon, C., Weerahewa, J. and **Pushpakumara, D.K.N.G.** (2021) Assessment of risk resiliency in coconut based agroforestry systems of Sri Lanka. *Agroforestry Systems* (submitted).
3. Bandara, T., Marambe, B., **Pushpakumara, G.**, Silva, P., Punyawardena, R., Manawadu, L., Premalal, S. Miah, G., Dahal, K.R. and Suriyagoda, L. (2021) Food-nutrition-health vulnerability of farming systems to climate change in the mountain areas of south Asia (submitted).
- 4.
5. Bandara, T., Marambe, B., **Pushpakumara, G.**, Silva, P., Punyawardena, R., Premalal, S., Manawadu, L., Dahal, K.R., Miah, G. (2021) Climate resilience of farming systems in steep mountain terrain of selected regions in South Asia. *APN Science Bulletin* 11 (1): 89-111.
6. Kumari, W.M.R., **Pushpakumara, D.K.N.G.**, Weerakoon, W.M.W., Senanayake, D.M.J.B. and Upadhyaya, H.D. (2021) Qualitative traits diversity and regional distribution of finger millet (*Elusine coracana* (L.) Gaertn) landraces and exotic germplasm in Sri Lanka. *Tropical Agricultural Research*. (submitted).
7. Gaisberger, H., Kettle, C.J., Vinceti, B., Fremout, T., Kemalasari, D., Kanchanarak, T., Thomas, E., Serra-Diaz, J.M., Svenning, J., Slik, F., Eiadthong, W., Palanisamy, K., Ravikanth, G., Bodos, V., Sang, J., Warriar, R.R., Wee, A.K.S., Elloran, C., Ramos, L.T., Henry, M., Hossain, A., Theilade, I., Laegaard, S., Bandara, K.M.A., Dimantha Panduka Weerasinghe, Suchitra Changtragoon, Vivi Yuskianti, Peter Wilkie, Nguyen Hoang Nghia, Stephen Elliott, Greuk Pakkad, Pimonrat Tiansawat, Colin Maycock, Chaloun Bounithiphonh, Rozi Mohamad, Nazre M. Saleh, Baktiar Nur Siddiqui, Lee Soon Leong, Lee Chai Ting, Nurul Farhanah Zakaria, Ida Hartvig, Lutz Lehmann²⁶, Dzaeman D. Dzulkifli, Jens-Peter Barnekow-Lillesø, Chhang Phourin, Zheng Yongqi, Huang Ping, Hugo A. Volkaert, Lars Graudal, Arief Hamidi, So Thea, Sineath Sreng, Fran Lambrick, David Boshier, Enrique Tolentino jr., Wickneswari Ratnam, Mu Mu Aung, Michael Galante, Siti Fatimah Mohd Isa, Quoc, D.N., Hoa, T.T., Le, T.C., Miah, D., Zuhry, A.L.M., Alawathugoda, D., Azman, A.,

- Pushpakumara, G.**, Sumedi, N., Siregar, I., Nak, H.K., Linsky, J., Barstow, M., Koh, L.P. and Jalonen, R. (2021) Multi-threat assessment shows urgent conservation and restoration needs for 65 important tree species across Asia. *Science AAAS* 373: submitted.
8. Ali, A., Ponnampalam, E.N., **Pushpakumara, G.**, Cottrell, J.J., Suleria, H.A.R. and Dunshea, F.R. (2021) Cinnamon: A Natural Feed Additive for Poultry Health and Production—A Review. *Animals* 11 (7): 2026. <https://doi.org/10.3390/ani11072026>
 9. Selvaskanthan, S., **Pushpakumara, D.K.N.G.**, Jayasinghe, L.B. and Eeswara, J.P. (2021) Development of a callus cultures for the production of phytochemicals of agarwood as a conservation strategy for *Gyrinops walla* – an endemic endangered forest tree species. *Journal of National Science Foundation of Sri Lanka* (submitted).
 10. Lowe, A.M., Sinniah, J., Jeyavanan, K., Silva, G.L.L.P. and **Pushpakumara, D.K.N.G.** (2021) Can Homegardens Assist in Enhancing the Domestic Food Security? A study in Jaffna Peninsula, Sri Lanka. *Agroforestry Systems* 95: 1205-1216. <http://link.springer.com/article/10.1007/s10457-021-00647-1>
 11. Ranil, R.H.G., Chamara, R.M.S.R., Dissanayaka, D.M.S.B., Eeswara, J.P., **Pushpakumara, D.K.N.G.**, Wijesuriya, G. and Jayasekara, I.G.R.I. (2021) Potential of spineless *Lasia spinosa* as a neglected indigenous vegetable. *International Journal of Vegetable Science*. DOI: 10.1080/19315260.2021.1925384
 12. Chandrasekara, C.H.W.M.R.B., Naranpanawa, D.N.U., Bandusekara, B.S., **Pushpakumara, D.K.N.G.**, Wijesundara, D.S.A. and Bandaranayake, P.C.G. (2021) Universal barcoding regions, rbcL, matK and trnHpsbA do not discriminate *Cinnamomum* species in Sri Lanka. *PLoS ONE* 16 (2): e0245592. <https://doi.org/10.1371/journal.pone.0245592>
 13. Hearath, H.M.B.S., **Pushpakumara, D.K.N.G.**, Hewson, M. and Wickramagamage, P. (2021) Biophysical and Socio-economic Determinants for Spatial and Temporal Changes of Tree Resources Outside Forests Land Uses in Upper Mahaweli Catchment in Sri Lanka: With Special reference to Homegardens. *Tropical Agricultural Research* 32 (2): 229-242. DOI: <http://doi.org/10.4038/tar.v32i2.8470>
 14. Weerahewa, J., Marambe, B., Silva, P. and **Pushpakumara, G.** (2021) Productivity of agri-food sector of Sri Lanka: the story unseen, unfolded or untold. *Sri Lanka Journal of Economic Research* 8 (2): 125-140.
 15. Mallawaarachchi, M.A.L.N., Madhujith, W.M.T., Suriyagoda, L.D.B. and **Pushpakumara, D.K.N.G.** (2021) Antioxidant Efficacy of Selected Underutilized Fruit Crop Species Grown in Sri Lanka. *Tropical Agricultural Research* 32 (1): 68-80.
 16. Liyanage, N.M.N., Bandusekara, B.S., Rajapaksha, R.W.M.K.K., Hathurusinghe, H.A.B.M., Rathnayaka, A.M.R.W.S.D., **Pushpakumara, D.K.N.G.**, Samita, S., Wijesinghe, K.G.G., Jayasinghe, G.G., Liyanage, W.K.K. and Bandaranayake, P.C.G. (2021) Identification of superior *Cinnamomum zeylanicum* Blume germplasm for future true cinnamon breeding in the world. *Journal of Food Composition and Analysis* 96. <https://doi.org/10.1016/j.jfca.2020.103747>
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 18. Selvaskanthan, S., Kaushalya, D.B.R., **Pushpakumara, D.K.N.G.**, Jayasinghe, L.B. and Eeswara, J.P. (2020) A comparison of chemical profiles of callus, plant and agarwood extracts of *Gyrinops walla* using thin layer chromatography. *Tropical Agricultural Research* 31 (2): 97-105. DOI: <http://doi.org/10.4038/tar.v31i2.8371>
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6.2 Peer Reviewed Books, Book Chapters and Monographs

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6.5 Editorial Works - Editing of Journals

1. Chief Editor of the Annals of the Sri Lanka Department of Agriculture (ASDA), Volume 18, 2016, Volume 17, 2015, Volume 16, 2014; Volume 15, 2013, published by the Department of Agriculture, Peradeniya, Sri Lanka.
2. Member of the Editorial Board of Journal of Tropical Agricultural Research, Volume 19, 2007; 18, 2006; 17, 2005; 16, 2004; 15, 2003), published by the Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka. ISSN: 1016.1422.
3. Member of the Editorial Board of Sri Lankan Forester, 2003-2006, Volumes 26-28, published by the Forest Department of Sri Lanka.
4. Member of the Editorial Board and Assistant Editor of Sri Lankan Journal of Applied Statistics and Applied Statistics News from March 1999 to March 2003, published by the Applied Statistics Association of Sri Lanka.
5. Editor in Chief, Tropical Agricultural Research. 2002, Volume 14, pp. 230, published by the Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka. ISSN: 1016.1422.
6. Member of the Editorial Board of Sri Lankan Journal of Agricultural Sciences, 1998, Volume 35, A publication of National Agricultural Society of Sri Lanka, pp. 181.

6.6 In Extended Abstract or Abstract Form (Selected)

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6.7 Articles in Newsletters, Bulletins and Newspapers

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7. NON RELATED REFEREES

Prof. M.D. Lamawansa
Vice Chancellor
University of Peradeniya
Peradeniya 20400
Sri Lanka

Phone: +94 81239 2300
Mobile: +94 714 335502
Fax: +94 81238 8102
e-mail: vc@pdn.ac.lk

Prof. A.J. Simons
Director General
World Agroforestry Centre
United Nations Avenue
Gigiri, PO Box 30677-00100
Nairobi, Kenya

Phone: +254 20 722 4000
Mobile: +254 733 893473
Fax: +254 20 722 4001
e-mail: t.simons@cgiar.org

8. DECLARATION

I, the undersigned certify that, to the best of my knowledge and belief, this bio data correctly describe my qualifications and experiences.



Prof. D.K.N.G. Pushpakumara

10th November 2021