

# Department of Botany Faculty of Science / University of Peradeniya



# Prof. G.A.D. Perera

B.Sc. (Perad.), M.Sc. (Oxon), D. Phil. (Oxon)

**Professor of Botany (Cadre Chair)** 

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#### **About Me**

My broad research interests lie within the fields of Biodiversity Conservation and Management, Ecology of Tropical Ecosystems and Restoration of Degraded habitats. Through investigations of regeneration and succession of dry and montane forest ecosystems of Sri Lanka and, native and invasive plant species, forest die-back in variable environments, I explore both basic and applied issues in Ecology. I am interested in examining the relationship between climatic variables and plants and, the vegetation responses to both biotic and abiotic factors at different spatial and temporal scales. The research findings will be further incorporated and tested to develop habitat restoration protocols, especially, converting old-growth pine plantations into conservation forests or community woodlots. My research also encompasses the diversity and biogeography of evolutionarily lower plants such as Algae and Cycads in Sri Lanka. My research approach is interdisciplinary and quantitative and often crosses traditional boundaries among different disciplines such as plant physiology, soil science, seed biology, plant-animal interactions, palynology, evolutionary morphology and molecular taxonomy.

# **Higher Education Qualifications**



PhD

University of Oxford

UK

(1998)

MSc

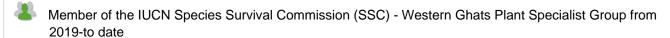
University of Oxford UK

(1994)

**BSc** 

University of Peradeniya Sri Lanka (1991)

# Awards, Scholarships, Memberships & Fellowships



- Fulbright Research Fellowship, USA Oct., 2016 to April, 2017
- Member of the National Biodiversity Task Force, Forest Department, Sri Lanka, 2014-2017
- Member of the young scientists' forum and a group leader of the National Science and Technology Commission (NASTEC), Ministry of Science and Technology, Sri Lanka since 2001
- Life member of the Institute of Biology, Sri Lanka since 2000
- Overseas Development Administration (ODA) Fellowship, UK 1993
- Member of the National Species Conservation Advisory Group, Ministry of Environment and Mahaweli Development, Sri Lanka, since 2000
- Life member of the Sri Lanka Association for the Advancement of Science (SLASS), Sri Lanka since 1993

### **Positions Held**

- Editor-in-Chief, PGIS Research Congress, 2017, Postgraduate Institute of science, Peradeniya
- Member of the Board of Management of the Postgraduate Institute of Science (PGIS), Peradeniya, Sri Lanka- (September, 2009 to September 2016)
- Chairperson of the Board of Study in Plant Sciences, Postgraduate Institute of Science (PGIS), Peradeniya, Sri Lanka- (September, 2009 to September, 2016)
- Editor-in-Chief, Ceylon Journal of Science (Biological Sciences), published by the University of Peradeniya, Sri Lanka- (May, 2012 to Dec., 2015)
- Head of the Department of Botany, University of Peradeniya, Sri Lanka- (September, 2009 October, 2015)
- Congress Chair, PGIS Research Congress, 2015 of the Postgraduate Institute of Science, Peradeniya
- Faculty Coordinator of the HETC W4 Quality Innovative Grants (QIG) project, Faculty of Science, University of Peradeniya, Sri Lanka- (May, 2013 to May 2014)
- Thematic coordinator of the Activity 4: Ethnic cohesion of the HETC University Development Grants (UDG) project, Faculty of Science, University of Peradeniya, Sri Lanka- (June, 2012 to May, 2014)
- Warden of the Hilda Obeyesekara Halls, University of Peradeniya, Sri Lanka- (2009)
- Senior Treasurer of the Botanical Society, University of Peradeniya, Peradeniya, Sri Lanka- (1999 2005)
- General Secretary of the University Science Teachers' Association Peradeniya (USTA-P), University of Peradeniya, Sri Lanka- (2004/2005)
- President of the USTA-P, University of Peradeniya, Peradeniya, Sri Lanka- (2004/2005)
- General Secretary of the Executive Committee of the Alumni Association of the University of Peradeniya (AAUP), Peradeniya, Sri Lanka- (2003/2004)
- Senior Student Counsellor of the University of Peradeniya, Sri Lanka- (1999)
- Member of the IUCN Species Survival Commission (SSC) Western Ghats Plant Specialist Group (from 2019-to date)
- Deputy Director/Consultancies, Centre for Environmental Sustainability- (from 2022 to date)

## My Teachings

AS415: Biodiversity Conservation and Sustainable Development

BT203: Vegetation Dynamics and Measurements

BT409: Dynamic Plant Ecology

BT410: Forestry

MIC3182: Effective Scientific Communications

# Research Interests (Research Fields/ Projects)

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# **Ongoing Research and Projects**

- Restoration of old-growth Pine (Pinus caribaea) Plantations with Native Tree Species in Up Country Intermediate Zone, Sri Lanka.
- Soil carbon sequestration in natural and agricultural landscapes
- Characterization of ecological, biochemical and genetic features of Sri Lankan Cycad species.
- Species distribution and natural regeneration of tropical montane forests of Sri Lanka
- Diversity and distribution of Trentapohliales algae in Sri Lanka
- Pollen of Sri Lankan flora
- Die-back of Montane forests
- Morphological, biochemical and molecular characterization of nutmeg (Myristica fragrans Houtt.) germplasm in Sri Lanka.

# **Key Publications**

Journal of Tropical Ecology - (2014)

Climatic factors responsible for triggering phenological events in Manilkara hexandra (Roxb.) Dubard., a canopy tree in tropical semi-deciduous forest of Sri Lanka.

Journal of Tropical Ecology - (2005)

Spatial Heterogeneity of the soil seed bank at dry deciduous forest at Wasgomuwa, Sri Lanka.

#### Conferences

The fourth Annual water and land symposium

**HELD AT :** Kent State University, Ohio, USA - (October 5-6, 2016) **TOPIC :** Sustainability and resilience on the land-water continuum.

Tropical Ecology Congress (TEC 2014)

HELD AT: Jawaharlal Nehru University, New Delhi, India - (December 10-12, 2014)

Air Pollution Crop Effect Network (APCEN) Workshop

HELD AT: Asian Institute of Technology (AIT), Bangkok, Thailand - (March 12-13, 2008)

Assessing impacts of air pollutants in South Asia.

HELD AT: Department of Environment, Dhaka, Bangladesh - (14th-17th August, 2007)

Eco summit 2007

HELD AT: Jiuhua Resort and Convention Centre, Beijing, China - (May 22-27, 2007)

Workshop on Quantitative Ecology

HELD AT: The Abdus Salam Center for Theoretical Physics, Miramare, Tristae, Italy - (May 09-20, 2005)

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# **My Publications**

Please goto the website.

https://sci.pdn.ac.lk/botany/staff/Anoma-Perera