

# Dr. Duminda Vidana Gamage

Senior Lecturer

Department of Soil science,  
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ResearchGate Profile: <https://www.researchgate.net/profile/Duminda-Vidana-Gamage>

Google Scholar: <https://scholar.google.com/citations?user=GGHAHwcAAAAJ&hl=en>

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## 1. PROFILE/ SUMMERY

- Employed as a Senior Lecturer (2019 - to present) at Department of Soil Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka.
- Worked as Doctoral researcher (2014-2019) at McGill University, Canada.
- Worked as a Lecturer (2013 - 2019) at Department of Soil Science, Faculty of Agriculture, University of Peradeniya.
- Worked as a Research scientist (2012-2013) at Coconut Research Institute, Sri Lanka.
- Teaching assistant (2009-2012) at Department of Soil Science, Faculty of Agriculture, University of Peradeniya.
- A dedicated academic with a strong background in teaching (undergraduate & postgraduate) & research.
- Over nine years of experience in undergraduate teaching at University of Peradeniya.
- Developed and revised, and taught fundamental soil science courses (Theory & practical sessions) for undergraduates.
  - Soil Resources and Ecosystem -1100 series
  - Properties and Functions of Soil - 1200 series
  - Soil Physics - 3200 series
  - Land Degradation and Conservation - 4100 series
  - Research Techniques in Soil Science - 4100 series
- Three years of experience postgraduate teaching at University of Peradeniya.
  - Environmental Soil Physics - 5100 series
  - Land use & environment - 6100 series

- Experience in practicing online teaching tools & blended learning techniques for teaching.
- Supervised masters and undergraduate thesis students, mentored graduate students, technical staffs and industry professionals.
- Research experience in the field and the laboratory, including designing, managing, and evaluating research projects.
- Proven track record of research expertise on soil physics, developing, calibrating, and validating soil moisture sensors, vadose-zone hydrology, solute movement in soils, soil spatial variability, and spatial statistics.
- A successful track record of attracting external funding, fellowships, scholarships, and awards.
- Possess excellent leadership, interpersonal, communication, and organizational skills.

## 2. RESEARCH EXPERTISE BY KEYWORDS

- Soil physics and Hydrology
- Vadose-zone hydrology
- Soil spatial variability and Spatial statistics
- Agricultural sensors
- Transport of water, nutrients, chemicals, and pollutants through soil.
- Agricultural water and nutrient management
- Soil quality and public health
- Integrated nutrient management
- Climate change and agricultural water balance
- Experimental design

## 3. EDUCATION

- **Ph.D. in Soil Physics** (2014-2019): Department of Natural Resource Sciences, McGill University, Canada. (<https://www.mcgill.ca/>).
  - Supervisors: Professor Asim Biswas and Professor Ian Strachan
  - Thesis title: *New sensing technique to quantify spatio-temporal dynamics of soil water from point to field scale.*
  - Date awarded: 19 February 2019
- **M.Sc. in Environmental Soil Science (GPA-3.89/4.0)** (2009-2012): Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka. (<http://www.pgia.pdn.ac.lk/>).
  - Supervisor: Professor Udaya Vitharana
  - Thesis title: *Digital mapping of soil properties using soil landscape relationships.*
  - Date awarded: 07 May 2012

- **B.Sc. (Hons) in Agricultural Technology & Management (Majored in Soil Science) (GPA 3.5/4.0-)** (2005-2009): Faculty of Agriculture, University of Peradeniya, Sri Lanka. (<https://agri.pdn.ac.lk/>)
  - Supervisor: Professor Ranjith B. Mapa
  - Thesis title: *Use of GIS for fertility mapping of rice growing soils.*
  - Date awarded: 27 April 2009

#### 4. PROFESSIONAL EXPERIENCE

- Senior Lecturer in Soil Physics at the Department of Soil Science, University of Peradeniya, Sri Lanka (2019 - present).
- Visiting Lecturer at Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka (2019- present).
- Secretary of Board of Study in Soil Science, Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka (2019-2021).
- Lecturer in Soil Physics at the Department of Soil Science, University of Peradeniya, Sri Lanka (2013 - 2019).
- Doctoral Researcher at McGill University, Canada (2014-2019).
- Graduate Teaching Assistant of *Biophysical Environment* course, Department of Natural Resource Sciences, McGill University (September 2016 - December 2016 & September 2017 - December 2017).
- Graduate Teaching Assistant of *Soil Fertility* course, Department of Natural Resource Sciences, McGill University (January 2016 - April 2016 & January 2017 - April 2017).
- Graduate Teaching Assistant of *Soils in a Changing Environment* course, Department of Natural Resource Sciences, McGill University (September 2015 - December 2015).
- Research Scientist at Soils and Plant Nutrition Division, Coconut Research Institute, Sri Lanka (2012-2013).
- Teaching Assistant of courses *Soil Physics*, *Soil Chemistry*, and *Soil Microbiology* Department of Soil Science, University of Peradeniya, Sri Lanka (2009-2011).

#### 5. TEACHING ACTIVITIES

##### Undergraduate teaching

- SS1101 - Soil Resources & Ecosystem (2 credits, 2019 - present)
- SS1201 - Properties & Functions of Soil (3 credits, 2019 - present)
- SS3201 - Soil Physics (2 credits, 2019 - present)
- SS 4102 - Land Degradation & Conservation (2 credits, 2019 - present)

##### Graduate teaching

- SS5101 - Environmental Soil Physics (3 credits, 2019 - present)
- SS 6201 - Land use & Environment (2 credits, 2019 - present)

## 6. RESEARCH IMPACTS

### Impacts

Total number of citations (as of 19<sup>th</sup> October 2022)

- Google scholar - 199
- Research Gate - 185

### Indices

- Google Scholar h-index: 7
- Google Scholar i10-index: 6
- ResearchGate Interest score: 207.1

### Publications

#### ○ Peer Reviewed Journal Papers

1. Ghosh, M., Ashiq, W., Bhogilal Vasava, H., **Vidana Gamage, D. N.**, Patra, P. K., & Biswas, A. (2021). Short-term carbon sequestration and changes of soil organic carbon pools in rice under integrated nutrient management in India. *Agriculture*, 11(4), 348. <https://doi.org/10.3390/agriculture11040348>
2. **Vidana Gamage, D. N.**, Vasava, H. B., Strachan, I. B., Adamchuk, V. I., & Biswas, A. (2021). Comparison of heating strategies on soil water measurement using actively heated fiber optics on contrasting textured soils. *Sensors*, 21(3), 962. <https://doi.org/10.3390/s21030962>
3. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2020). Scale and location dependent time stability of soil water storage in a maize cropped field. *CATENA*, 188, 104420. <https://doi.org/10.1016/j.catena.2019.104420>
4. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2019). Spatial variability of soil thermal properties and their relationships with physical properties at field scale. *Soil and Tillage Research*, 193, 50–58. <https://doi.org/10.1016/j.still.2019.05.012>
5. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2019). Field water balance closure with actively heated fiber-optics and point-based soil water sensors. *Water*, 11(1), 135. <https://doi.org/10.3390/w11010135>
6. **Vidana Gamage, D. N.**, Biswas, A., Strachan, I., & Adamchuk, V. (2018). Soil water measurement using actively heated fiber optics at Field Scale. *Sensors*, 18(4), 1116. <https://doi.org/10.3390/s18041116>
7. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2018). Actively heated fiber optics method to monitor three-dimensional wetting patterns under drip irrigation. *Agricultural Water Management*, 210, 243–251. <https://doi.org/10.1016/j.agwat.2018.08.019>
8. **Vidana Gamage, D. N.**, Mapa, R. B., Dharmakeerthi, R. S., & Biswas, A. (2016). Effect of rice-husk biochar on selected soil properties in Tropical Alfisol. *Soil Research*, 54(3), 302. <https://doi.org/10.1071/sr15102>

9. **Vidana Gamage, D. N.**, Vitharana, W. A. U., & Mapa, R. B. (2011). Geostatistical analysis of soil properties to support spatial sampling in a paddy growing alfisol. *Tropical Agricultural Research*, 22(1), 34. <https://doi.org/10.4038/tar.v22i1.2668>
- **In preparation**
    1. **Vidana Gamage, D. N.**, Peiris, T. T. K., & Mohotti, K. (2022). Impact of long-term manure application on soil thermal properties of Tea cultivated Ultisols. *Soil Science Society of America Journal* (In preparation).
    2. **Vidana Gamage, D. N.**, Sathiyaseelan, P., & Dharmakeerthi, R.S. (2022). Effects of single-time application of biochar and repeated application of compost on soil hydrological dynamics of a corn-corn tropical cropping system. *Vadose zone Journal* (In preparation).
    3. **Vidana Gamage, D. N.**, Kularathne, K., & Dharmakeerthi, R.S. (2022). Impact of conversion of Rubber plantations to Oil Palm on soil properties and agricultural water balance: A case study from the low country wet zone of Sri Lanka. *Agricultural Water Management Journal* (In preparation).
    4. **Vidana Gamage, D. N.**, Kularathne, K., & Dharmakeerthi, R.S. (2022). Calibration, validation, and sensitivity analysis of tree parameters for estimating crop water usage of Oil Palm using sap flow sensors. *Tree Physiology* (In preparation).
    5. **Vidana Gamage, D. N.**, Kularathne, K., & Dharmakeerthi, R.S. (2022). Comparison of crop water usage and root water extraction patterns of Rubber and Oil Palm under different crop age and soil conditions. *Agricultural Water Management Journal* (In preparation).
  - **Conference Publications**
    1. Sathiyaseelan, P., Munasinghe S.T., Dharmakeerthi, R. S., & **Vidana Gamage, D. N.** (2022). Impacts of biochar and compost on soil hydrological dynamics of a tropical Alfisol. Paper presented at the ASA, CSSA, SSSA International Annual Meeting.
    2. Chandrasekara, K. A. H. D., Abeyrathna, R. M. R. D., **Vidana Gamage, D. N.**, & Nissanka, S.P., (2021). Validation of Implexx sap flow sensor to determine the crop water usage of oil palm (*Elaeis guineensis*). Paper presented at the Faculty of Agriculture Undergraduate Research Symposium Faculty of Agriculture, University of Peradeniya.
    3. Rathnasiri, G. A. G. I., **Vidana Gamage, D. N.**, Dharmakeerthi, R. S., & Munasinghe, S. T. (2021). Evaluation of Hydrus 1D hydrological model to simulate soil water content dynamics in a tropical Alfisol cultivated with corn (*Zea mays*). Paper presented at the Faculty of Agriculture Undergraduate Research Symposium, University of Peradeniya.
    4. Edirisinghe, G. E. A. S. J., **Vidana Gamage, D. N.**, Dharmakeerthi, R. S., & Munasinghe, S. T. (2021). Effects biochar & compost on soil hydrological dynamics in an Alfisol cultivated with Corn in the Dry zone of Sri Lanka. Paper presented at the Faculty of Agriculture Undergraduate Research Symposium University of Peradeniya.

5. Sathiyaseelan, P., Munasinghe S.T., Dharmakeerthi, R. S., & **Vidana Gamage, D. N.** (2020). Impact of biochar and compost on soil physical and hydrological properties of an Alfisol cultivated with Corn in the dry zone of Sri Lanka. Paper presented at the Faculty of Agriculture Undergraduate Research Symposium Faculty of Agriculture, University of Peradeniya.
6. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2018). Seasonal dependent time stability of soil water storage within a maize cropped field. Paper presented at the Canadian Soil Science Society Annual Meeting, Niagara Falls.
7. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2018). Soil water measurement from laboratory soil column to field scales using actively heated fiber optics. Paper presented at the 20<sup>th</sup> EGU General Assembly, EGU2018, Vienna, Austria.
8. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2017 a). Active heat pulse method with fiber optic temperature sensing to monitor three-dimensional wetting patterns under drip irrigation. Paper presented at the Canadian Soil Science Society Annual Meeting Trent University, Peterborough Ontario
9. **Vidana Gamage, D. N.**, Biswas, A., & Strachan, I. B. (2017b). High resolution soil moisture monitoring using active heat pulse method with fiber optic temperature sensing. Paper presented at the Canadian Soil Science Society Annual Meeting Trent University, Peterborough Ontario.
10. **Vidana Gamage, D. N.** & Biswas, A. (2016). Comparison of power and heating time in fiber optic distributed temperature sensing to measure soil water. Paper presented at the Canadian Soil Science Society Annual Meeting Kamloops, BC, Canada.
11. **Vidana Gamage, D. N.**, Mapa, R. B., Dharmakeerthi, R. S., & Biswas, A. (2015). Impact of rice husk biochar on selected soil properties of two Alfisols of Sri Lanka. Paper presented at the Soil Interfaces for Sustainable Development-ISMOM McGill University, Montreal, Canada.
12. **Nayanaka, V. G. D.**, & Mapa, R. B. (2014). Use of Atterberg soil consistency limits for soil structure and tillage management of five soils of Sri Lanka. Paper presented at the Peradeniya University International Research Sessions, Sri Lanka, University of Peradeniya.
13. Ranaweera, K. K. D. C., & **Nayanaka, V. G. D.** (2011). Investigation of some physical characteristics of pleistocene deposits used for the ancient pottery in sri lanka. Paper presented at the International Conference on Social Sciences and Humanities, Faculty of Arts, University of Peradeniya, Sri Lanka.

14. **Nayanaka, V. G. D.**, Mapa, R. B., & Rathnayake, W. M. U. K. (2009). Use of GIS for mapping of soil texture and organic matter of rice soils of pulasthigama in polonnaruwa district of sri lanka. Paper presented at the Geo-Informatics for National Development, Hector Kobbekaduwa Agrarian Research and Training Institute, Colombo, Sri Lanka.

- **Book chapters**

1. **Vidana Gamage, D. N.**, Delisle, J., Bissonnette, B. A., & Biswas, A. (2019). Soil Physical Properties in Biochar Amended Soils: Challenges and Perspectives for Agronomic Implications. In A. Rakshit, B. Sarkar, & P. Abhilash (Eds.), *Soil Amendments for Sustainability: Challenges and Perspectives* (pp. 428). Boca Raton: CRC Press.

## 7. PRESENTATIONS

- **Oral**

1. Use of Implexx Sap flow sensors to quantify the crops water usage of Oil Palm trees. Faculty of Agriculture, University of Peradeniya, Sri Lanka. Invited talk to the plantation industry (2022).
2. Sensing systems to quantify water dynamics across the soil-plant-atmospheric continuum. An invited talk to at the annual general meeting of Soil Science Society of Sri Lanka (2022).
3. New sensing technique to quantify spatio-temporal dynamics of soil water from point to field scale. An invited talk to the faculty board, Faculty of Agriculture, University of Peradeniya, Sri Lanka (2021).
4. Impacts of Biochar and Compost on Soil Hydrological Dynamics of a Tropical Alfisol (virtual oral). ASA, CSSA, SSSA International Annual Meeting, Salt Lake City, UT (2021).
5. Soil water measurement from laboratory soil column to field scales using actively heated fiber optics. 20<sup>th</sup> EGU General Assembly, EGU2018, Vienna, Austria (2018).
6. High resolution soil moisture monitoring using active heat pulse method with fiber optic temperature sensing. Canadian Soil Science Society Annual Meeting, Trent University, Peterborough Ontario (2017).
7. Impact of rice husk biochar on selected soil properties of two Alfisols. International Symposium on Interactions of Soil Minerals with Organic Components and Microorganisms (ISMOM). Montreal, Canada (2015).

8. Digital mapping of soil properties using soil-landscape relationships. Invited talk in the Annual mid-year technical sessions of Soil Science Society of Sri Lanka (2012).
  9. Geostatistical analysis of soil properties to support spatial sampling in a paddy growing Alfisol. Annual research congress of Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka (2011).
- **Poster**
    1. Seasonal dependent time stability of soil water storage within a maize cropped field. Canadian Soil Science Society Annual Meeting, Niagara Falls (2018).
    2. Active heat pulse method with fiber optic temperature sensing to monitor three-dimensional wetting patterns under drip irrigation. The best poster award at Canadian Soil Science Society Annual Meeting Trent University, Peterborough Ontario (2017).
    3. Comparison of power and heating time in fiber optic distributed temperature sensing to measure soil water (2016). Canadian Soil Science Society Annual Meeting Kamloops, BC, Canada (2016).

## 8. CONFERENCES, WORKSHOPS AND TRAINING PROGRAMS ATTENDED

- **Conferences**
  1. Annual Research Congress of Postgraduate Institute of Agriculture (2011), University of Peradeniya.
  2. Annual National Plantation Symposium of Sri Lanka (2012).
  3. Annual Research Congress of Postgraduate Institute of Agriculture (2013), University of Peradeniya.
  4. Joint annual meeting of IUSS-CSSS-AQSSS (July 2015), Montreal, Canada.
  5. Canadian Society of Soil Science Annual Meeting (May 2016), Kamloops, BC, Canada.
  6. Canadian Society of Soil Science Annual Meeting, (June 2017), Peterborough, ON, Canada (**best poster award**).
  7. Canadian Society of Soil Science Annual Meeting (2018), Niagara Falls, ON.
  8. Annual Meeting of American Society of Agricultural and Biological Engineers (2018).
  9. Annual research congress of Postgraduate Institute of Agriculture (2020), University of Peradeniya.
  10. ASA, CSSA, SSSA International Annual Meeting (2021), Salt Lake City.
  11. Annual Research Congress of Postgraduate Institute of Agriculture (2021), University of Peradeniya.



- **Workshops**

1. Workshop on developing e-Learning Modules in Moodle LMS (April 2022), University of Kelaniya, Sri Lanka.
2. Short course on Thermo-TDR sensors organized by North Carolina State University, USA (2018).

- **Training programs**

1. Program on Rice Yield Increasing Technology organized by Yuan Longping High -tech Agriculture Co., Ltd. China (August 2019- September 2019).
2. Training on Distributed Temperature Sensing Systems at Oregon State University (June 2015-July 2015).
3. Induction training for academic staff at University of Peradeniya, Sri Lanka (2014).
4. Workplace Hazardous Materials Information System (WHIMIS) laboratory training at McGill University (2014).
5. Hazardous Waste Management & Disposal training at McGill University (2014).
6. Training program on ISO/IEC 17025:2005 internal auditing of laboratory management systems conducted by the Sri Lanka Accreditation Board (2013).

## **9. AWARDS, SCHOLARSHIPS AND TEACHING ASSISTANTSHIPS**

- **Awards and scholarships**

1. Early career research award under the University of Winnipeg Queen Elizabeth II Diamond Jubilee International Scholars Program (2021 March - October 2021) at University of Winnipeg
2. Canadian Geophysical Union travel award (2018).
3. Best poster award (President's award), Canadian Society of Soil Science (CSSS 2017) annual meeting in Trent University, Peterborough.
4. GREAT award - Department of Natural Resource Sciences 2016 and 2018.
5. Differential tuition fee waiver award, McGill University (2014-2016).
6. Graduate excellence award McGill University (2014-2017).
7. Graduate student mobility award (2014-2015).

- **Teaching assistantships**

1. Graduate Teaching Assistant of *Biophysical Environment* course (September -December 2016 & 2017).
2. Graduate Teaching Assistant of *Soil Fertility* course (January -April 2016 & 2017).
3. Graduate Teaching Assistant of *Soils in a Changing Environment* course (September 2015 - December 2015).

## 10. RESEARCH GRANTS

### ○ **Previously held**

1. University of Peradeniya research grant (startup grant-2013-2015) - 1000.00 USD, PI (Title - *Impacts of biochar application on soil properties of tropical soils*).

### ○ **Currently held**

1. Investigator Driven grants by National Research Council of Sri Lanka (2021-2024) - 13800.00 USD, PI (Title - *Investigation of crop water usage and soil hydrological dynamics of oil palm (*Elaeis guineensis* Jacq.) and rubber (*Hevea brasiliensis* Muell. Arg.) plantations in the low country wet zone of Sri Lanka*).
2. Sri Lanka Council for Agricultural Research & Policy under the national agricultural research plan (2019-2023) - 13000.00 USD, PI (Title - *Identifying the impacts of climate variable on soil water and thermal dynamics in selected cropped fields of the Dry Zone of Sri Lanka*).
3. University of Peradeniya research grant (startup grant-2019-2022) - 3000.00 USD, PI (Title - *Identifying the impacts of climate variable on soil water dynamics in selected rainfed cropped fields of the Dry Zone of Sri Lanka*).

### ○ **Collaborative grants currently held**

1. Swiss National Science Foundation (SNSF) (2021-2023) 504595.00 USD, project partner, (Title - *Can organic farming practices increase nitrogen (N) use efficiency and decrease N losses in mature tea (*Camellia sinensis* L. (O.) Kuntze) plantations in Sri Lanka?*).
2. Sri Lanka Council for Agricultural Research & Policy under the national agricultural research plan (2021-2023) - 10,000.00 USD, CI (Title - *Long term effect of single application of Rice Husk Biochar and Corn Cob Biochar on physical, hydrothermal properties and carbon dynamics in maize cultivated Reddish Brown Earth soil*).

## 11. STUDENT ADVISING AND SUPERVISION (2019 - Present)

### Under current supervision (\* indicates co-supervised student with co-supervisor's name in bracket)

#### ○ **M.Sc. Thesis**

1. Kusalika Kularathne (2022-)
2. Lahiru Banadra (2021-)
3. Radha Subashini (2022-)
4. Dayanath Janaka (2022-)

○ **Undergraduate Thesis**

1. Isuru Kasthuri (2022-)
2. Thilanjana Kalpani (2022-)
3. Dimuthu Perera \* (Prof. Sarath Nissanka) (2022-)
4. KU Lakshan \* (Prof. Sarath Nissanka) (2022-)

**Completed supervision (year of completion) (\* indicates co-supervised student with co-supervisor's name in bracket)**

○ **Undergraduate Thesis**

1. Priyanthini Sathiyaseelan (January 2020 - July 2020).
2. Gihan Indeevara (August 2021-December 2021)
3. Sithara Edirisinghe (August 2021-December 2021)
4. Dananjaya Chandrasekara\* (Prof. Sarath Nissanka) (August 2021-December 2021).

**Undergraduate academic advisor (student mentoring)**

1. Ihshan F.M
2. Madhuranga H.P.N.
3. Samarakoon S.M.V.G.A.P
4. Madhuwanthi P.G.N.P.
5. Madhushani P.K
6. Madhushanka Y.E.
7. Arachchige N.P.S.M
8. Sewmina A.W.D.
9. Aberathna W.A.K.L.
10. Abewardana H.A.D.R
11. Abeywickrama U.G.C.S.

## **12. CONTRIBUTION TO THE PUBLIC AND PROFESSION**

**Membership in professional societies**

1. Canadian Society of Soil Science
2. Soil Science Society of America
3. Crop Science Society of America
4. American Society of Agronomy
5. Canadian Geophysical Union
6. American Society of Agricultural & Biological Engineers
7. Soil Science Society of Sri Lanka
8. Member of Young Scientist Forum (YSF) of Sri Lanka

## **Reviewer for journals**

### ○ **International**

1. Canadian Journal of Soil Science
2. Soil Science Society of America Journal
3. Agriculture & Forest Meteorology
4. Sensors (MDPI)
5. Water (MDPI)
6. Horticulture (MDPI)
7. Hydrology (MDPI)
8. Agronomy (MDPI)

### ○ **Local**

1. Tropical Agricultural Research
2. Annual sessions of the Institute of Biology Sri Lanka
3. Annual Science Research Sessions of South Eastern university of Sri Lanka.
4. Open University Research Sessions of Sri Lanka (2020).

## **Memberships/positions in administrative bodies /committees**

1. Coordinator of Soil Analytical Service Laboratory of Department of Soil Science, University of Peradeniya (2019- present).
2. Member of Board of Study in Soil Science at Postgraduate Institute of Agriculture (2020- to present).
3. Member of Student Advisory, Welfare and Grievance committee, Faculty of Agriculture, University of Peradeniya (2021-2022).
4. Member of Library Committee, Faculty of Agriculture, University of Peradeniya (2021-2022).
5. Member of Publicity & Public Relation Committee, Faculty of Agriculture, University of Peradeniya (2021-2022).
6. Secretary of Board of Study in Soil Science at Postgraduate Institute of Agriculture (2020-2021).
7. Laboratory quality manager at Soils and Plant Nutrition Division Coconut Research Institute, Sri Lanka (2012-2013).
8. President of the Postgraduate Agricultural Student's Association in Postgraduate Institute of Agriculture, University of Peradeniya (2009-2010).
9. President of the Soil Science Society of Faculty of Agriculture, University of Peradeniya (2007-2009).

### **Contribution to event organization**

1. Chair, logistic committee of Annual Research Congress of Postgraduate Institute of Agriculture, University of Peradeniya. (2022).
2. Chair, logistic committee of Faculty of Agriculture Undergraduate Research Symposium, University of Peradeniya. (2022).
3. Coordinator, inter-school quiz competition organized by the Soil Science Society of Sri Lanka for world soil day celebration (2022).
4. Member of the Golden Jubilee organizing committee of Faculty of Agriculture Undergraduate Research Symposium, University of Peradeniya. (2022).
5. Coordinator of the Webinar program organized by the Department of Soil Science, University of Peradeniya as a part of the world soil day celebration (2021).
6. Session coordinator of Faculty of Agriculture Undergraduate Research Symposium (2020 & 2021).
7. Academic coordinator of Peradeniya University International Research Sessions (2021).
8. Coordinator of Innovation & Invention competition of Faculty of Agriculture Undergraduate Research Symposium, University of Peradeniya. (2019 & 2020).

### **Contribution to student's extracurricular activities**

1. Senior advisor to Soil Science Student Society Faculty of Agriculture (<https://www.facebook.com/sssfao>) (2019-present).
2. Senior advisor to Invention Club Faculty of Agriculture (2021- present).

### **Outreach activities**

1. A resource person for the guest lecture on “Soil degradation” organized by the Rotaract club of Kandy region, Sri Lanka (2022).
2. A resource person for the advanced level agricultural teacher training workshop 2022.
3. A resource person in the workshop on “Irrigation of Coconut Palms” at Coconut Research Institute Sri Lanka (2013).
4. A resource person in the workshop on Farmer Awareness program organized by CIC Rural Humanity Services Foundation (2010).
5. A resource person in the workshop on “GIS Applications on Land Resource Management” for undergraduates at Peradeniya University (2009).

### 13. NAME AND CONTACT OF REFEREES

1. Professor Asim Biswas (Ph.D. Supervisor)  
Position: Associate Professor  
Affiliation: School of Environmental Sciences, University of Guelph  
Postal Address: 50 Stone Road East  
Guelph, ON N1G 2W1 Canada  
Tel. (Mobile): +1 519 731 6252  
Tel. (Office): Tel. (Office): +1 519 824 4120 Extn 54249  
Email: [biswas@uoguelph.ca](mailto:biswas@uoguelph.ca)
  
2. Professor Ian Strachan (Ph.D. core Supervisor)  
Position: Associate Professor  
Affiliation: Department of Natural Resource Sciences, McGill University  
Postal Address: Macdonald-Stewart Building  
21111 Lakeshore Road  
Ste. Anne de Bellevue, Quebec  
H9X 3V9, Canada.  
Tel. (Mobile): +1 613.533.6030  
Tel. (Office): Tel. (Office): +1 514-398-7935  
Email: [ian.strachan@queensu.ca](mailto:ian.strachan@queensu.ca), [ian.strachan@mcgill.ca](mailto:ian.strachan@mcgill.ca)