

# CURRICULUM VITAE - DR. S. PATHMARAJAH – January 2023

## Personal detail

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## Academic qualifications

1. D. Tech. (Irrigation Engineering and Management), 1996; Asian Institute of Technology, Bangkok, Thailand.
2. M.Phil. (Soil and Water Engineering), 1991; Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
3. B.Sc. (Agric.), 1982; University of Peradeniya, Sri Lanka.
4. Diploma in Coaching for Conflict Transformation and Peace Building Initiatives, 2008; FLICT / GTZ, Sri Lanka.

## Additional training

1. Sustainable groundwater management through Integrated Water Management, **Brisbane, Australia**. 20 October to 02 December 2016, Australia Award Fellowship.
2. Training of Trainers (ToT) programme on “Interdisciplinary Field Research Methodology”, **Cox’s Bazaar, Bangladesh**, Sponsored by ScaiWATERS, 06 – 17 December 2010. Contributed to developing a postgraduate course module on Gender and Water.
3. Training on “**Human Resources Development**”, IRQUE Project, University of Peradeniya, 23 – 24 November 2009 and 07 – 08 December 2009.
4. Training on “**Computer Based Learning Materials Development (CBLM)**”, University of **Saskatchewan, Canada**, 14 August– 03 September 2008.
5. Training on “Participatory Field Research Methodology”, **Kathmandu, Nepal**, 6 – 13 May 2008.
6. **Six-module** training on "**Conflict Sensitivity**", Sponsored and Organised by the Consortium of Humanitarian Agencies (CHA), Sri Lanka, June 2007 – January 2008.
7. Training on "Gender and Water". **Hyderabad, India**, Sponsored by ScaiWATERS, 08 – 13 October 2006.

8. Training on “Integrated Water Resources Management (IWRM)”, Sri Lanka. Sponsored by ScaIWATERS, 10 – 20 September 2006.
9. “**Training of Trainers (General)**”. Sponsored by CARE International - Sri Lanka. 17 – 20 May 2005.
10. Training on “Audio Visual Aids”. Conducted by the Audio-Visual Unit, Department of Agriculture, Gunnoruwa, Sri Lanka. Sponsored by CARE International - Sri Lanka. 21 – 24 March 2005.
11. Training on “Advanced Watershed Management”, **Sweden** (August 2002) and **India** (October 2002). Sponsored by SIDA.
12. Training on “**Strategic Management and Marketing of Training**” at the Asian Institute of Management (AIM), The Philippines. Sponsored by the World Bank Institute. 03 – 14 April 2000.
13. One-year certificate program on “**Improving Training Quality through Peer Learning and Distance Mentoring**”, Thailand, Sri Lanka and Malaysia. A Training of Trainers (ToT) Program Sponsored by the World Bank and conducted by the University of Illinois. May 1999 to April 2000.

## Awards

1. Australia Award Fellowship for sustainable groundwater management through Integrated Water Management, International Water Centre, Brisbane, Australia., **five weeks** from 20 October to 02 December 2016.
2. Foreign Research Fellow / Visiting Associate Professor (Agro-environment), University of Tokyo, **three months** from 01 October to 31 December 2000.
3. German Academic Exchange Service (DAAD) Scholarship for Ph. D., **three years** from 1992 to 1995 at AIT, Thailand.

## Teaching areas

Irrigation and Drainage, Soil and Water, Gender and Water, Field Research Methodologies, and Groundwater Management

## Research interests

Irrigation, Soil and Water, Gender and Water, Climate Change and Water, Water and Society, Water and Food Security, and Groundwater Management.

## Work experiences

1. Senior Lecturer (Irrigation Engineering and Management), Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya, Sri Lanka, since June 1996 to date
2. Country Coordinator, Cap-Net Lanka (Country partner to Cap-Net UNDP), PGIA, Peradeniya, Jan. 2017 - Dec. 2022
3. Acting Project Director, Dry Zone Agriculture Development Project, CARE International-Sri Lanka, From March 2005 to May 2005 (in five districts: Mannar, Puttalam, Anuradhapura, Monaragala and Hambantota).
4. Team Leader, Dry Zone Agriculture Development Project, CARE International-Sri Lanka, From June 2004 to February 2005 (in Mannar district).
5. Lecturer, Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya, Sri Lanka, April 1990 - June 1996.
6. Research Assistant, International Irrigation Management Institute (IIMI), Colombo, Sri Lanka, June 1986 to August 1988.
7. Teaching Assistant (Agric. Engineering), Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya, Oct. 1985 to May 1986.
8. Research Assistant, Man and Biosphere Project, National Science Foundation / Department of Agric. Engineering, Faculty of Agriculture, University of Peradeniya, Feb. 1983 to Jan. 1985.

## Administrative positions held at the University

1. Head, Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka, Oct. 2018 – April 2021.
2. Lecturer In-charge, University Sub-campus (A field training campus for the Faculty of Agriculture), University of Peradeniya, Mahailuppallama, Sri Lanka, Nov. 2002 to Oct. 2003.

3. Lecturer In-charge, University Sub-campus (A field training campus for the Faculty of Agriculture), University of Peradeniya, Mahailuppallama, Sri Lanka, August. 1999 - Sept. 2000.
4. Lecturer In-charge, University Sub-campus (A field training campus for the Faculty of Agriculture), University of Peradeniya, Mahailuppallama, Sri Lanka, 1991.

### **Other assignments**

1. Member of the Teaching Panel in the Board of Study in Agric. Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka. 1996 - date.
2. Member of the Steering Committee on Research & Development of Water of the Research Arm, National Science Foundation (NSF), Sri Lanka, 15 November 2021 -
3. Member of the Curriculum Development Committee, Faculty of Agriculture, University of Peradeniya, Peradeniya, 2011-2016, 2018-2021
4. Coordinator, Integrated Water Management Programme (IWRM), Board of Study in Agricultural Engineering, Postgraduate Institute of Agriculture, Peradeniya, 2014 - 2021
5. Editor in Chief, Tropical Agricultural Research, Volume 26 (1-4), 2014/15.
6. Coordinator, 26<sup>th</sup> Annual Congress of the Postgraduate Institute of Agriculture - 2014, University of Peradeniya, Peradeniya.
7. Member of the Editorial Board, Tropical Agricultural Research, Volume 25 (2013/14)
8. Abstract Reviewers, International Academic Committee of the 18<sup>th</sup> World Congress of CIGR, 2013.
9. Member of the International Editorial Board, International Agriculture Engineering Journal, 2012-
10. Member of the Editorial Board, Tropical Agricultural Research, 2012.
11. Member of the advisory committee to the Staff Development Centre, University of Peradeniya, 2012-
12. Member of the Board of Management, Postgraduate Institute of Agriculture, University of Peradeniya, Nov. 2009 – 2012.
13. Member of the Board of Study in Agricultural Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka, Feb. 2007 – Jan. 2022.
14. Chairman, Board of Study in Agricultural Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka, Feb. 2007 – Jan. 2010.
15. Member of the core team on developing “code of conduct for conflict sensitivity (CS)” professionals, Consortium of Humanitarian Agencies (CHA), Sri Lanka.
16. Member of the core team on developing computer-based learning material (CBLM) for the B.Sc. Agricultural Technology and Management degree program, Faculty of Agriculture, University of Peradeniya, Sri Lanka.
17. Member of the national team on “development of standards for hardware material for utilisation in micro-irrigation activities in Sri Lanka.”

### **Resource person**

1. Development of watershed management plan. Two one-day training programmes conducted for the estate sector beneficiaries of World Vision Lanka on 04 - 08 December 2017.
2. Water resources management in Sri Lanka. Conducted to visiting graduate students from Michigan State University (MSU), ..... 2017.
3. Water resources management in Sri Lanka. Conducted to visiting graduate students from ..... Australia, ..... 2016.
4. Monitoring of groundwater. Follow-up Programme on Integrated Water Resources Management for Officials in the Northern Province in Sri Lanka, Sponsored by Cap-Net Lanka, 09 July 2016.
5. Stakeholder engagement. Training Programme on Integrated Water Resources Management for Officials in the Northern Province in Sri Lanka, Sponsored by Cap-Net Lanka, 18-22 September 2015.
6. Irrigation water management. Training Programme on Integrated Water Resources Management for Officials in the Northern Province in Sri Lanka, Sponsored by Cap-Net Lanka, 18-22 September 2015.
7. Water resources management in Sri Lanka. Conducted to visiting graduate students from Michigan State University (MSU), June 2015.
8. On-farm water management. Trainings conducted for farmer leaders in Kilinochchi and Mullaitivu districts on 17, 18, 19, 22 and 23 Dec. 2015. Sponsored by FAO, Sri Lanka.
9. Water resources management in Sri Lanka. Conducted to visiting graduate students from Michigan State University (MSU), May 2014.

10. Water resources management in Sri Lanka. Conducted to visiting graduate students from Michigan State University (MSU), May 2013.
11. Water resources management in Sri Lanka. Conducted to visiting graduate students from University of California Davis (UCD), July 2010.
12. Modernising irrigation structures and water-saving methods in the context of climate change adaptation. An invited paper presented at the Regional Workshop on “Strategic assessment for climate change adaptation in natural resource management”, Asian Development Bank Institute (ADB), Colombo, Sri Lanka, 8-11 June 2010.
13. Water management practices and climate change adaptation: South Asian experiences. An invited paper presented at the regional workshop on "Mainstreaming climate change adaptation into developmental planning. Asian Development Bank Institute (ADB), Tokyo, Japan, 14-17 April 2009.
14. NGOs in water sector in Sri Lanka: Overview and influence. An invited paper presented at the workshop on "Civil society in water governance in South Asia", SasiWATERS, Pune, India, 10-12 October 2007.
15. Role of NGOs in water management. An invited paper presented in the international conference on "Challenges and strategies for the sustainability of safe drinking water", Gandhi Gram Rural Institute (a deemed University), Madurai, India, 25-27 October 2006.

### **Trainings / Workshops / Symposia coordinated**

1. Symposium on Urban Water and Coastal Zone Management, 28 November 2019, International Water Management Institute (IWMI), Colombo, Sri Lanka
2. Cap-Net Lanka Water Forum, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka., 01 October 2018.
3. International "Training cum visit Program on Agricultural Development, 01 - 06 August 2016, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka. Conducted for a team of senior officials from Nepal.
4. National symposium on “Groundwater availability and use in the dry zone of Sri Lanka”, 23 July 2016, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka.
5. International "Study Tour / Seminar on Farm Mechanisation, Agricultural Marketing and On-farm Water Management", 20 - 24 July 2015, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka. Conducted for a team from Nepal.
6. International training programme on "Farm Machinery, On-farm Water Management and Agricultural Marketing", 25 - 31 July 2014, Horizon Campus, Malabe, Sri Lanka. Conducted for a team from Nepal.
7. National consultative workshop on "Water, livelihood and rural poverty", 14 November 2012, Hectorkoppekaduwa Agrarian Research and Training Institute (HARTI), Colombo, Sri Lanka (sponsored by FAO, Bangkok).
8. International training programme on "Policy formulation for integrated crop and water management", 11-16 June 2012, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka. Conducted for a team from Nepal.
9. International Symposium on "Urban Lake monitoring and management". 18 May 2012, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka.
10. International training programme on “Sustainable tropical agricultural systems of Sri Lanka, 05-30 July 2010, Agriculture Education Unit (AEU), Faculty of Agriculture, University of Peradeniya, Sri Lanka. Conducted for a group of graduate students from the University of California Davis (UCD), USA.
11. Regional workshop on “Strategic assessment for climate change adaptation in natural resource management”, 8-11 June 2010, Colombo, Sri Lanka (sponsored by ADBI, Japan).
12. National symposium on "Progress and prospects on water supply, sanitation and wastewater management: Towards clean and healthy society". 23 June 2008. Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka
13. National symposium on "Development Initiatives in Water Sector: Lessons learnt by NGOs". 29 November 2006, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka.
14. National symposium on the "Use of Groundwater for Agriculture in Sri Lanka". 02 September 2002, Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka.

## Proceedings edited

1. Pathmarajah, S. (2016). Groundwater availability and use in the dry zone of Sri Lanka. Proceedings of a symposium, 22 July 2016, Peradeniya, Sri Lanka.
2. Dhayawansa, N.D.K, Pathmarajah, S. and R.P. De Silva (2012). Water resources research in Sri Lanka. Symposium proceedings of the water professionals' day. 01 October 2012, Peradeniya, Sri Lanka.
3. Pathmarajah, S., Jinadasa, S. and M.I.M. Mowjood (2012). Urban lake monitoring and management. Proceedings of an international symposium., 18 May 2012, Peradeniya, Sri Lanka.
4. Dhayawansa, N.D.K, Pathmarajah, S. and M.I.M. Mowjood (2009). Water resources research in Sri Lanka. Symposium proceedings of the water professionals' day. 01 October 2009, Peradeniya, Sri Lanka.
5. Pathmarajah, S and M.I.M. Mowjood. (2009). Progress and prospects on water supply, sanitation and wastewater management: Towards clean and healthy society. Proceedings of a symposium. 23 June 2008, Peradeniya, Sri Lanka.
6. Pathmarajah, S and M.I.M. Mowjood. (2006). Development Initiatives in Water Sector: Lessons learnt by NGOs". Proceedings of a symposium, 29 November 2006, Peradeniya, Sri Lanka.
7. Pathmarajah, S. (2003). Use of groundwater for agriculture in Sri Lanka. Proceedings of a symposium, 30 September 2002, Peradeniya, Sri Lanka.

## Books authored/edited

1. Pathmarajah, S. and S.A. Jabbar (2014) Irrigation system management: A guide to the management of minor irrigation schemes (unpublished). FAO, Sri Lanka. p54.
2. Mikunthan, T., Vithanage, M., Pathmarajah, S., Arasalingam, S., Ariyaratne, R., Manthritilake, H. (2013). Hydrogeochemical characterisation of Jaffna's aquifer systems in Sri Lanka. Colombo, Sri Lanka: International Water Management Institute (IWMI). 69p. doi: 10.5337/2014.001
3. Anbumozhi, V., Meinhard Breiling, Pathmarajah, S. and V.R. Reddy (2012) Climate change in Asia and the Pacific: How can countries adapt? Sage Publications, India (ISBN 9788132108948), p400.
4. Thiruchelvam, S. and S. Pathmarajah. (1999) An economic analysis of salinity problems in the Mahaweli H area. The final report of the EEPSEA research project, May 1999. Singapore.

## Book chapters

1. Pathmarajah, S. (2012). Water management practices and climate change adaptation: South Asian experiences. In: Climate change in Asia and the Pacific: How can countries adapt? Sage Publications, India.

## List of publications

1. Fernando, B.H.R., Ranasinghe, C.S., Pathmarajah, S. and Mowjood, M.I.M. (2022). Performance of Micro Irrigation Systems in Coconut Plantations: A Field Study. Paper presented at the PGIA Annual Congress, 2022.
2. Kowshayini, P., Nayakekorala, H.B. and Pathmarajah, S. (2022). Tank Sedimentation and Soil Erosion Simulations of the Subcatchments Under Present Land Use Scenario and Conservation Interventions in Palugaswewa Tank Cascade System, Sri Lanka. Paper presented at the PGIA Annual Congress, 2022.
3. Dissanayake, P., De Silva, S.N.T., Pathmarajah, S. Kodagodaand, K.A.D.A., Chandimal T.M.R. and Herath, H.M.T.D. (2022). Pesticide Usage Pattern in Rice Cultivation in Trincomalee District in Sri Lanka. Tropical Agricultural Research, 33(2): 173-182.
4. Dissanayake, D.M.P.N.K., De Silva, S.N.T., Pathmarajah, S., Fernando, C.A.N., Abeynayake, N.R., Kodagoda, K.A.D.A. and Dassanayake, D.M.M.N.K. (2022). Occurrence of heavy metals in surface water bodies in rice cultivation areas in Trincomalee district, Sri Lanka. Paddy Water Environ. <https://doi.org/10.1007/s10333-022-00909-3>
5. Sugirtharan, M. and Pathmarajah, S. (2022). Determination of rainfall-runoff relationship using SCS-CN method in Batticaloa lagoon area, Sri Lanka. AGRIEAST 2022 Vol. 16 (1): 1-13.
6. Dilini1, M.M.G.S., Gunawardena, E.R.N. and Pathmarajah, S. (2021). Impacts of Water Scarcity Induced Adaptation Strategies on Livelihood and Household Food Security of Farming Community of

- Horivila-Palugaswewa and Sivalakulama Cascades of Sri Lanka. *Tropical Agricultural Research*, 32(4): 418-425.
7. Thusyanthini, R., Pathmarajah, S. and Suthakaran, N. (2021). Performance Assessment of Iranamadu Irrigated Agricultural System in Sri Lanka. *Rajarata University Journal*, 6 (1), 88-92.
  8. Sutharsiny A., Manthrilake, H., Pathmarajah, S., Mikunthan, T. and Meththika, V. (2020). Geo-statistical approach for prediction of groundwater quality in Chunnakam aquifer, Jaffna Peninsula. *J Jaffna Sci. Association*, 2(1), 12-24.
  9. Dilini I, M.M.G.S., Pathmarajah, S. and Gunawardena, E.R.N. (2020). Role of groundwater as a climate change adaptation strategy in dry zone farming systems, Sri Lanka. *Proceedings of the Geoethics and Groundwater Management Congress*, Springer Nature.
  10. Naveendrakumar, G. Meththika Vithanage, Hyun-Han Kwon, Chandrasekara, S.S.K., Iqbal, M.C.M., Pathmarajah, S., Fernando, W.C.D.K. and Jayantha Obeysekera (2019). South Asian perspective on temperature and rainfall extremes: A review. *Atmospheric Research xxx (xxxx) xxx-xxx*
  11. Sugirtharan, M., Pathmarajah, S. and Mowjood, M.I.M. (2019) Climate change awareness and perception among the community residing nearby areas of Batticaloa lagoon in Sri Lanka. *AGRIEAST 2019 Vol.13 (2):55-68*.
  12. Naveendrakumar, G. Meththika Vithanage, Hyun-Han Kwon, Iqbal, M.C.M., Pathmarajah, S. and Jayantha Obeysekera (2018). Five Decadal Trends in Averages and Extremes of Rainfall and Temperature in Sri Lanka. *Advances in Meteorology*, 2018: 1-13.
  13. Arasalingam, A., Manthrilake, H., Pathmarajah, S., Mikunthan, T. and Vithanage, M. (2018) Assessment of the chemical facies of groundwater using factor analysis in the Chunnagam aquifer, Jaffna Peninsula. *JSLASS*, 2018 (1): 1 – 12.
  14. Jayasiri, M.M.J.G.C.N., Diyawadana, D.M.N., Samarakoon, S.M.L.D., Pathmarajah, S. and Dayawansa, N.D.K. (2018). A Gendered Analysis on Adaptation to Resettlement Stress: Case Studies from Deduru Oya Reservoir Project in Sri Lanka. *Tropical Agricultural Research*, 29 (4): 348-360.
  15. Pathmarajah, S. (2018). Transformation of Agricultural Extension Systems towards Ecosystem Sustainability. In: *Proceedings of the International Conference on Transforming Agricultural Extension Systems: Towards achieving the relevant Sustainable Development Goals (SDGs) for Global Impact*. Kandy, Sri Lanka, 255-257.
  16. Naveendrakumar, G., Vithanage, Meththika, Obeysekera, J., Pathmarajah, S. and Iqbal, M.C.M. (2017). Long-term temperature trends in climatological zones of Sri Lanka. *Abstracts of the International Roundtable on the Impact of Extreme Natural Events: Science and Technology for Mitigation*. 13-15 December 2017. Colombo, Sri Lanka. pp. 27-28.
  17. Diyawadana, D.M.N., Pathmarajah, S. and Gunawardena, E.R.N. (2017). Vulnerability of Smallholder Farmers to Climate Change: A Case Study from Hakwatuna-Oya Irrigation Scheme in Sri Lanka. *Tropical Agricultural Research Vol. 28 (3): 223-237*.
  18. Sugirtharan, M., Pathmarajah, S. and Mowjood, M.I.M. (2017). Spatial and Temporal Dynamics of Water Quality in Batticaloa Lagoon in Sri Lanka. *Tropical Agricultural Research Vol. 28 (3) : 281-397*.
  19. Sugirtharan, M., Pathmarajah, S., Mowjood, M.I.M. and Nirmilan, A. (2017). Characteristics of sediments of Batticaloa Lagoon of Sri Lanka during rainy season with special reference to texture and organic matter. *5th International Symposium on Advances in Civil and Environmental Engineering Practises for Sustainable Development (ACEPS 2017)*, Faculty of Engineering, University of Ruhuna, Sri Lanka.
  20. Kumari, M.K.N., Pathmarajah, S. and N.D.K. Dayawansa (2016). Evaluation of groundwater quality for irrigation in Malwathu Oya Cascade-I in Anuradhapura District of Sri Lanka. *Tropical Agricultural Research*, Vol. 27 (4), 310-324.
  21. Diyawadana, D.M.N., Pathmarajah, S. and E.R.N. Gunawardena (2015). Perception-driven Coping Strategies for Climate Change by Smallholder Farmers in Sri Lanka: A Case Study in Hakwatuna-oya Major Irrigation Scheme. *Tropical Agricultural Research*, Vol. 27 (4), 336-349.
  22. Pathmarajah, S. and Sudarshani, R. (2016). Groundwater policy for Sri Lanka: The way forward. In: Pathmarajah, S. (2016). *Groundwater availability and use in the dry zone of Sri Lanka*. Cap-Net Lanka, PGIA, Peradeniya, 146-153.
  23. Mohamed Aheeyar, Herath Manthrilake, Selvarajah Pathmarajah and Ian W. Makin (2016). Groundwater development through sprinkler irrigation: Consequences of a lack of a governance structure in Kalpitiya, Sri Lanka. In: *Groundwater availability and use in the dry zone of Sri Lanka*, Cap-Net Lanka, PGIA, Peradeniya. 115-127.

24. Sudarshani, R., Pathmarajah, S. and Ariyaratne, W.M.T.P. (2016). Effect of crop establishment techniques on root development, morphological parameters and yield parameters in aerobically cultivated rice. 2nd world irrigation forum, 6 -8 November 2016, Chaing Mai, Thailand. Available at [http://www.icid.org/wif2\\_full\\_papers/wif2\\_w.3.1.08.pdf](http://www.icid.org/wif2_full_papers/wif2_w.3.1.08.pdf)
25. Mowjood, M.I.M., Pathmarajah, S., Gunarathna Banda, A.M., Kasubuchi, T. and Yasuda, H. (2016). Effect of multiple mechanical weeding on growth and yield under flooded rice cultivation with zero-chemical. International Conference on Agricultural and Food Engineering (Cafei2016), 23-25 August 2016, Malaysia, 345-350.
26. Gajanayaka Mudalige Pradeep Kumara, Mallawathantrige Dilini Dayashani Perera, Selvaraja Pathmarajah, Nandini Dhammika Kumari Dayawansa, Mohamed Ismail Mohammed Mowjood, Lakshman Wasantha Galagedara. (2016). Water Pollution in an Urban Stream, Kandy, Sri Lanka: A Review. ASCE, IPWE, 4-7 January 2016.
27. Aditya Sood, Herath Manthrilake, Salman Siddiqui, Ameer Rajah and Pathmarajah, S. (2016). Managing Groundwater in Jaffna: Using high-resolution imagery to quantify Agro-wells. ASCE, IPWE, 4-7 January 2016.
28. Aheeyar, M., Manthrilake, H. and Pathmarajah, S. (2016). Drivers of the adoption of farmer-innovated sprinkler irrigation systems: Evidence from Kalpitiya, Sri Lanka. ASCE, IPWE, 4-7 January 2016.
29. Naveendrakumar, N., Jayantha Obeysekera, Meththika Vithanage, Iqbal, M.C.M. and Pathmarajah, S. (2016). Historical trends of rainfall, temperature and runoff in Sri Lanka. ASCE, IPWE, 4-7 January 2016.
30. Sugirtharan, M., Pathmarajah, S. and Mowjood, M.I.M. (2015). Vertical variation of Salinity, Electrical Conductivity Temperature and pH of Batticaloa Lagoon. International Journal of Applied and Physical Sciences, vol. 1, no. 2, pp. 36-41. 2015. DOI: <https://dx.doi.org/10.20469/ijaps.50003-2>.
31. Kumara, G.M.P., Perera, M.D.D., Wijekoon, W.M.S.M., Pathmarajah, S., Dayawansa, N.D.K., Mowjood, M.I.M. and Galagedara, L.W. (2015). Water pollution in a natural stream and its impact on society and environment: A review of studies on Meda Ela, Sri Lanka. Proceedings of the 6th International Conference on Structural Engineering and Construction Management, Kandy, Sri Lanka, 11-13 December 2015.
32. Mowjood, M.I.M., Pathmarajah, S., Gunarathna Banda, A.M., Tatsuaki Kasubuchi and Hironori Yasuda (2015) Effects of multiple mechanical weeding on crop growth and yield under non-chemical rice farming in Sri Lanka. INWEPF, Negombo, Sri Lanka, 3-5 November 2015.
33. Priyadarshika, S, Dayawansa, N.D.K. and Pathmarajah, S. (2015) Pollution sources around the Negombo lagoon boundary and their impact on lagoon water quality with respect to Negombo Municipal Council Area, 19th International Forestry and Environment Symposium, Sigiriya, Sri Lanka, 24 - 25 October 2015.
34. Sivasankaran, S. and Pathmaraja, S. (2015) Assessment of water use efficiency in red onion cultivation at the coastal belt of Trincomalee North, National Symposium on Agriculture, Eastern University, Sri Lanka, 05 August 2015. 69 - 72
35. Aditya Sood, Herath Manthrilake, Salman Siddiqui, Ameer Rajah, Pathmarajah, S. (2015) Managing shallow aquifers in the dry zone of Sri Lanka. Environmental Monitoring and Assessment. 07/2015; 187(7): 4584.
36. Meththika Vithanage, Thushyanthi Mikunthan, Selverajah Pathmarajah, Sutharsiny Arasalingam and Herath Manthrilake (2014) Assessment of nitrate-N contamination in the Chunnakam aquifer system, Jaffna Peninsula, Sri Lanka. Springer Plus 2014 3: 271.
37. Mowjood, M.I.M., Pathmarajah, S., Tatsuaki Kasubuchi and Hironori Yasuda (2014) Effect of soil mixing (by multiple mechanical weeding) and hand weeding on crop growth and yield under non-chemical rice farming in Sri Lanka. 4th International Workshop on Sustainable Rice Production. 19-20 December 2014, Niigata University, Japan.
38. Bandara, K.M.J.G.N.N.K.G. and S. Pathmarajah (2014) effect of irrigation transformation on groundwater pollution in Kalpitiya Peninsula, Sri Lanka. Proceedings of Faculty of Agriculture Undergraduate Research Symposium (FAuRS), 23 December 2014. pp.167.
39. Somathilake, K.V.P.M, Pathmaraja, S. and K. Gunasekara (2014) Evaluation of a commercially available hydroponic system. Proceedings of Faculty of Agriculture Undergraduate Research Symposium (FAuRS), 23 December 2014. pp.168.

40. Delina, E. D. P. and S. Pathmarajah. (2014). Spatial analysis on drinking well water quality in Eravur Pattu divisional secretariat, Batticaloa, Sri Lanka. *International Journal of Development Research*. Vol. 4 (9): 1831-1835.
41. Sugirtharan, M., Pathmarajah, S. and M.I.M. Mowjood. (2014). Temporal flux of salinity and lagoon water height in Batticaloa lagoon of Sri Lanka during dry season. *European International Journal of Applied Science and Technology*. Vol. 1 (5): 151-163.
42. Sugirtharan, M., Pathmarajah, S. and M.I.M. Mowjood. (2014). Variation of Salinity in Batticaloa Lagoon during Wet Season. *Tropical Agricultural Research* Vol. 25 (3): 403-411.
43. Sutharsiny, A., Manthrilake, H., Pathmarajah, S., Thushyanthy, M. and V. Meththika (2014). Seasonal variation of nitrate-n in groundwater: a case study from Chunnakam aquifer, Jaffna peninsula. *Ceylon Journal of Science (Physical Sciences)* 18: 01 - 08.
44. Kumari, M.K.N., Pathmarajah, S. and N.D.K. Dayawansa (2013). Characterisation of Agro-Well Water in Malwathu Oya Cascade-I in Anuradhapura District. *Tropical Agricultural Research* Vol. 25 (1): 46-55.
45. Pathmarajah, S., Mowjood, M.I.M. and Tatsuaki Kasubuchi (2013). Effect of land and water management on bio-based soil nutrients under zero-chemical input paddy farming in the dry zone of Sri Lanka. Paper presented at the 3rd International workshop on sustainable rice production: Environmental friendly rice plant cultivation. Hanoi, Vietnam, 19-20 September 2013.
46. Mowjood, M.I.M., Pathmarajah, S. and Tatsuaki Kasubuchi (2013). Plant growth performance in consecutive cultivation seasons and water management under zero chemical input paddy farming in Sri Lanka. Paper presented at the 3rd International workshop on sustainable rice production: Environmental friendly rice plant cultivation. Hanoi, Vietnam, 19-20 September 2013.
47. Jayaweera, P.M.A. and S. Pathmarajah (2013) Effective stakeholder participation in water resources management: A case study in Komarika Ela scheme. 2nd Sri Lankan roundtable on sustainable consumption and production. National Cleaner Production Centre. Hotel Galadari, Colombo, 21-22 February 2013.
48. Sugirtharan, M., Venuthasan, T. and S. Pathmarajah (2013) Climate change adaptation strategies: A case study of the Unnichchai irrigation command area in the Batticaloa district of Sri Lanka. 4th International Symposium. Sabaragamuwa University of Sri Lanka. 11-12 January 2013.
49. Sugirtharan, M., Pathmarajah, S. and M.I.M. Mowjood (2013) Study on the effects of anthropogenic activities on the lagoon near Manmunai Pattu Area of Batticaloa District. Proceedings of the Young Scientists Forum Symposium. HARTI, 18 January 2013.
50. Vigneswaran, S., Sugirtharan, M., Venuthasan, T. and Pathmarajah, S. (2012) Sustainable use of runoff harvesting tanks in smallholder farming system: A case study at Vellavelli area of Batticaloa District. First Young Water Professionals Symposium, 22-23 November 2012, Colombo, Sri Lanka.
51. Sutharsiny, S. Pathmarajah, M. Thushyanthy, V. Meththika and H. Manthrilake (2012). Impact of Agricultural Activities on groundwater quality and its suitability for drinking in Valikamam area, Jaffna Peninsula. First Young Water Professionals Symposium, 22-23 November 2012, Colombo Sri Lanka, 74-81.
52. Pathmarajah, S., Mowjood, M.I.M. and Tatsuaki Kasubuchi (2012). Effect of mechanical weeding (soil mixing) on wet-seeded paddy under chemical-free conditions in the dry zone of Sri Lanka. Paper presented at the 2nd International workshop on sustainable rice production: Environmental friendly rice plant cultivation. Yamagata, Japan, 14-15 September 2012.
53. Mowjood, M.I.M., Pathmarajah, S. and Tatsuaki Kasubuchi (2012). Effect of multiple mechanical weeding on yield in non-chemical Rice farming under tropical conditions in Sri Lanka. Paper presented at the 2nd International workshop on sustainable rice production: Environmental friendly rice plant cultivation. Yamagata, Japan, 14-15 September 2012.
54. Sutharsiny, A., Pathmarajah, S., Thushyanthy, M and V. Meththika (2012). Characterisation of Irrigation Water Quality of Chunnakam Aquifer in Jaffna Peninsula. *Tropical Agricultural Research* Vol. 23 (3): 237-248.
55. Melvani, K. and S. Pathmarajah (2012). Restoration of the riparian zone of lake Richmond through Landcare. In: Urban lake monitoring and management. Proceedings of an international symposium., 18 May 2012, Peradeniya, Sri Lanka, 105-117.
56. Melvani, K. and S. Pathmarajah (2011). Bioremediation of nitrates in groundwater. In: Water resources research in Sri Lanka, Proceedings of a Symposium, 01 October 2011, Kandy, Sri Lanka.
57. Pathmarajah, S. (2011). Climate change and adaptation strategy in agriculture. In: Enhancing food security and nutrition among the most vulnerable farm families in eastern Sri Lanka: A path from



- fragility to stability, Proceedings of the Exit Strategy Workshop. FAO, 29 April, 2011, Kandy, Sri Lanka.
58. Fonseka, R.M., Pathmarajah, S. and N.K.A.C. Kodiweera (2010). Status of home gardening in Mahaweli System H area as influenced by the government food production drive - "Let us cultivate and uplift the nation". Sri Lankan J. Agric. Sci. Vol.47: 62 - 73.
  59. Abeygunawardane A.W.G.N., Dayawansa N.D.K. and S. Pathmarajha (2010). Socio-economic implications of water pollution and pattern of waste generation in an urbanised environment: A case study in Meda Ela catchment, Kandy, Sri Lanka. Tropical Agricultural Research.
  60. Thuvarahan, P., Pathmarajah, S. and Sugirtharan, M. (2010). Investigation of the groundwater salinity problem in the Madukkarai resettlement village in Mannar district. The 9th Annual Research Session, EUSL. p.51
  61. Vijayakumar, R., Pathmarajah, S. and Sugirtharan, M. (2010), Interactive information system for on-farm water management. 3rd International symposium, Sabragamuwa University, Sri Lanka. p.36.
  62. Yogendran, M., Sugirtharan, M. and S. Pathmarajah (2009). Variation in the quality of irrigation water with increasing distance from sea: A case study in Kaluthawalai village of Batticaloa. The 8th Annual Research session, Eastern University, Sri Lanka.
  63. Vijayakumar, R., Pathmarajah, S. and M. Sugirtharan (2009). Developing a Decision Support System (DSS) for on-farm water management in Sri Lanka. The 8th Annual Research session, Eastern University, Sri Lanka.
  64. Abeygunawardana, A.W.G.N., Dayawansa, N.D.K. and Pathmarajah, S. (2009) Population pressure and unplanned waste disposal on water quality of an urban stream: A case study of Meda Ela Catchment, Kandy, Sri Lanka, Proceedings of the Fourth South Asia Water Conference, Interfacing poverty, livelihood and climate change in water resources development: Lessons in South Asia, May 4-6, 2009, Kathmandu, Nepal, pp 311-323.
  65. Pathmarajah, S. and K. Melvani. (2008). Status and sustainable management of the Paradeke Oya watershed (Executive Summary). In: Status and sustainable management of the Paradeke Oya watershed. Consultancy report for National Water Supply and Drainage Board. NSRC, September 2008, 9-15.
  66. Pathmarajah, S. (2008). Groundwater and agriculture: Possible future implications. In: Groundwater in Sri Lanka - A most precious but highly threatened resource, Proceedings of the Symposium, National Academy of Sciences, Sri Lanka (NASSL) in collaboration with the Water Resources Board (WRB) and the Department of Civil Engineering, University of Peradeniya. 24-26 February 2008. Anuradhapura, Sri Lanka
  67. Senarathna, W.A.S. and S. Pathmarajah. (2007) Evaluation of the status of coconut-based drip irrigation system installed under subsidy scheme. In: De Silva, R. P. and Dayawansa, N. D. K. (Ed.) Water resources research in Sri Lanka. Symposium Proceedings of Water Professionals' day, 01 October 2007, Kandy, Sri Lanka, 147 - 155.
  68. Mowjood, M.I.M. and S. Pathmarajah. (2007) Review of historical water sector coordination and allocation issues: Prospects and problems for the future. In: Proceedings of Consultation on effective water institution to promote integrated water resources management, Sri Lanka Water Partnership, 08 June 2007, Colombo, Sri Lanka, 9-17.
  69. Pathmarajah, S. (2006) Role of NGOs in water management (invited presentation). In: Proceedings of an International conference on challenges and strategies for the sustainability of safe drinking water, 25 - 27 October 2006, Madurai, India, 75 - 81.
  70. Mowjood, M.I.M, Pathmarajah, S. and M. Rambanda. (2005) Effects of cracks on water requirement for land soaking in lowland paddy cultivation, J. Soil Sci. Soc. Sri Lanka, Vol (17): 1-10.
  71. Pathmarajah, S. (2003) Use of groundwater for agriculture in Sri Lanka: A synthesis of the past, present and the future. In: Pathmarajah, S. (Ed.). Proceedings of the symposium on the use of groundwater for agriculture in Sri Lanka, 30 September 2002. Peradeniya, Sri Lanka, 1 - 9.
  72. Karunaratne, A.D.M. and S. Pathmarajah. (2003). Groundwater development through introduction of agro-wells and micro-irrigation in Sri Lanka. In: Pathmarajah, S. (Ed.). Proceedings of the symposium on the use of groundwater for agriculture in Sri Lanka, 30 September 2002. Peradeniya, Sri Lanka, 29 - 41.
  73. Pathmarajah, S. and H.M. Somarathne. (2003) Reasons for abandoning agro-wells (large diameter wells): An empirical study. Sri Lankan Journal of Agricultural Science, 40:10-22.

74. Pathmarajah, S. (2003) Environmental aspects of pesticides in low land rice fields. In: De Silva, R. P. (Ed.) Water resources research in Sri Lanka. Symposium Proceedings of Water Professionals' day, 04 October 2003, Kandy, Sri Lanka., 21-33.
75. Pathmarajah, S. and Jeyakumar, P. (2002) Management Information System (MIS) for on-farm Irrigation management In Sri Lanka. In: Proceedings of the Annual Research Session, University of Peradeniya, Sri Lanka, 5.
76. Thiruchelvam, S., Pathmarajah, S. and K. Pathmanathan. (2002) Agricultural production and salinity control: An economic, hydrogeologic and agronomic assessment in the Mahaweli System H area in Sri Lanka. Paper presented in the International Seminar on Irrigation for the next Millennium, Colombo, Sri Lanka.
77. Jeyakumar, P. and S. Pathmarajah. (2001) Use of computer-based decision support system for on-farm water management in the Batticaloa district. *AGRIEAST*, 3: 23-33. Sri Lanka.
78. Jeyakumar, P., Pathmarajah, S. and Ariyaratne. A.R. (2001) User-friendly computer package for on-farm water management in the dry zone of Sri Lanka. *Tropical Agricultural Research*. 13: 112-122. Sri Lanka.
79. Thiruchelvam, S. and S. Pathmarajah. (1999) Hydrologic and economic feasibility of reducing soil salinity problem in the Mahaweli river irrigation system H area, Sri Lanka, In: Proceeding of the International Conference on Agricultural Engineering, 17-13 December 1999, Beijing, P. R. China.
80. Pathmarajah, S. and V.V.N. Murty. (1998) Modelling pesticide transport in lowland rice fields. In: Proceedings of the International Agricultural Engineering Conference, 7-10 December 1998, Bangkok, Thailand, II: 664-672.
81. Mapa, R. B. and S. Pathmarajah. (1995) Contrasts in the physical properties of three soils in an Alfisol Catena in Sri Lanka. *Soil Use and Management*. 11: 90-93. US.
82. Pathmarajah, S. and V.V.N. Murty. (1995) Water quality aspects related to pesticides in lowland paddy fields. Paper presented at the International Workshop on Water Quality and Catchment Management, 2-May 05, 1995, Hat Yai, Thailand.
83. Pathmarajah, S. and R.B. Mapa. (1990) Changes in soil physical properties along a Reddish Brown Earth soil catena: A challenge for irrigation planning. In: Gunawardena, E. R. N. (Ed.), Irrigation and water resources, Proceedings of a symposium, 24 - 25 August 1990, Kandy, Sri Lanka, 40-45.
84. Pathmarajah, S. (1982) Changes in the quality of Mahaweli River water along its path. Unpublished research report submitted in partial fulfilment of the requirements for the degree of Bachelor of Science in Agriculture. University of Peradeniya, Sri Lanka.

### **M. Phil. / M.Sc. (Research) students supervised**

1. Dilinie, M.M.G.S. (----). Effectiveness of climate change adaptation strategies in dry zone farming systems. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
2. Dissanayake, S.M.P.N.K. (2022). Study on the patterns of using pesticides in rice cultivation and the occurrence of heavy metals in surface water bodies in Trincomalee district. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
3. Sudarshani, R. (2020) Application of sustainable livelihood framework for water interventions to ensure food security in Bayawa minor tank cascade area in Sri Lanka. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
4. Naveendrakumar, G. (2019) Historical trends in averages and extremes of rainfall, temperature and runoff of Sri Lanka. Postgraduate Institute of Science, University of Peradeniya, Sri Lanka.
5. Ranundeniya, R.M.N.S. (2017) Assessment of water footprint of orthodox black tea- A study in wet zone of Sri Lanka. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
6. Diyawadana, D.M.N. (2016) Impact of climate change and policy environment on rural smallholder farmers in Hakwatuna-oaya scheme in Sri Lanka. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
7. Priyadarshika, G.D.S. (2015) Assessment of pollution sources of Negombo Estuary in Negombo municipal council area. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
8. Kumari, M.K.N. (2014) Groundwater quality and availability in Malwathu Oya Cascade I in Anuradhapura district. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
9. Abeygunawardane, A.W.G.N. (2010) Identification of pollution zones of Meda-ela (mid canal) catchment and the socio-economic impacts of water pollution. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.

10. Jeyakumar, P. (2002). Development of a decision support system for on-farm water management in the dry zone of Sri Lanka. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.

### **Supervision of ongoing M.Phil / M.Sc. (Research) projects**

1. Assessment of the status of ecological components, their functions and the effectiveness of the rehabilitation activities in small tanks of Palugaswewa Tank Cascade System
2. Opportunities and constraints for small-scale water interventions as climate change adaptation and water security options for rural smallholder farmers

### **Ph.D. students supervised**

1. Sugirtharan, M, (2021) Development of an integrated management plan for Batticaloa lagoon to meet the challenges of climatic hazards and anthropogenic activities. Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.

### **Supervision of ongoing Ph. D research projects**

1. Occurrence of soil water repellency (SWR) and its effects on soil hydraulic properties in different ecosystems of Sri Lanka

### **M.Sc. students' directed study supervised (Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka)**

1. Kariyawasam, S.T. (2023 to be presented). Impact of COVID-19 on the Revenue of Colombo City - South Zone, of National Water Supply and Drainage Board, Sri Lanka.
2. Weerakoon M.D.S.W. (2023 to be presented) Developing and Sustaining an Efficient Water Use Plan in Water Supply System of Institute of Engineering Technology Premise.
3. Kumara, G.C.U. (2022). Development of a process guide for modern drinking water treatment plant with multiflo settler and pressure filters.
4. Thilakarathna, H.W.R.B. (2022). Evaluation of a Water Quality Index for surface water at Kiwla intake, Sudu Ganga.
5. Warnakulasooriya, W.M.K.D.S. (2022). Impact of biofilm biofertilizer on soil moisture-holding capacity and soil fertility under rice cultivation in Sri Lanka.
6. Hettiarachchi, K.R. (2020). Rooftop Rainwater Harvesting System for non-portable applications in University College of Anuradhapura.
7. Vimaladhas, V. (2020). Hidden cost of water source access for domestic water use in selected Grama Niladhari divisions of Cheddikulam divisional secretary division of Vavuniya district in Sri Lanka.
8. Ihalakodippily, I.K.K.G. (2019). Pre-feasibility Study of Morana Water Supply Project.
9. Thusyanthini, R. (2019). Performance Assessment of Iranamadu Irrigated Agricultural System in Sri Lanka.
10. Gunarathne, L.H.S.D. (2019). Reducing the potable water consumption of UNIVOTEC old buildings by applying the leed green rating system under water efficiency category.
11. Dissanayake, D.M.P.N.K. (2019). Selection of wetland plants for the proposed "Constructed Wetland" at University College of Kuliyaipitiya: A review.
12. Rathnaweera, D.T.H.P. (2019). Rural Women and Climate Change Adaptation: A Case study in Thalakolawewa village, Tabuttegama, Anuradhapura.
13. Kaushalya, H. P. (2018). Social-economic and health issues related to the groundwater pollution in Rathupaswala.
14. Lakmal, A.G.P.N. (2018). Evaluation of water quality parameters of treated municipal wastewater for the purpose of agricultural activities.
15. Perera, H.M.D.A.S. (2018). Rainfall analysis for mitigation of flood effect due to proposed weir site at Barandana in Deduru-oya in greater Kurunegala water supply scheme
16. Mahendrapala, A.H.J.S. (2018) Evaluation of Water Quality Parameters in Medirigiriya Divisional Secretariat Division to Demonstrate the Suitability of Groundwater Wells for Drinking Purposes
17. Subhawickrama, S.G.C.L. (2018) Water quality assessment for trophic state classification and identification of design measures against algae in raw water: A case study of Ibbankatuwa reservoir.

18. Wickramatunga, C.K. (2017). Present status of irrigation practices in agro well farming in the Anuradapura district
19. Abeyssekara, A.H.R.P. (2017). Present status of agro-well use in Mahaweli System H: A case study from Nochchiyagama Block.
20. Ranasinghe, P.V.R (2017). Assessment of water quality issues in Bandarapura water supply scheme.
21. Kaushalya, H.P. (2017) Social-economic and health issues related to the groundwater pollution in Rathupaswala.
22. Gunawansa, T.D. (2017). Assessing the water demand from Ulhitiya reservoir to chronic kidney disease (CKDu) affected areas in Girandurukotte
23. Nawaratne, N.M.A.L.B. (2017). Water resources assessment of downstream sub-catchment of proposed Demodara Impounding Reservoir in Badulu Oya.
24. Rathnasiri, M.T.P.M. (2016). Investigation on Management Strategies to Increase Irrigation Efficiency and Reduce Groundwater Pollution in Kalpitiya Peninsula, Sri Lanka.
25. M.D.E. Kumari, M.D.E. (2016). Identification of potential risk areas in terms of drinking water quality in Puttalam districts.
26. Rajapakse, D. N. (2016) Study on non-revenue water component at Kandy Municipal Council water supply scheme based on structural components.
27. Rathna, S.M.J. (2015) Non-awareness of households of wastewater and its impact on system failure: A case study of Hanthana sewerage treatment system
28. Sivakumar, K. (2015) Assessment of marine water quality in Arugambay recreational site.
29. Sivasankaran, S. (2015) Water Use Efficiency of Red Onion Cultivation in the Coastal Belt of Trincomalee-North, Sri Lanka
30. Thilanka. J. (2014) Study on distribution of fluoride in groundwater of Kobeigane, Kurunegala.
31. Karunarathne, K. M. S. A. (2013) Assessment of the Sustainability of Bandarawela Water Supply Scheme.
32. Delina Felix, E. (2013) Spatial analysis of drinking well water quality in Eravur Pattu Divisional Secretariat, Batticaloa.
33. Bandara, K. M. H. (2013) Performance of Community-Based Organisations (CBOs) in Water Supply and Sanitation in Kiriella area, Ratnapura.
34. Anusha Priyanthi, R.G. (2013). Improvement of water quality by introducing a proper catchment management plan in Maragala oya- Monaragala.
35. Janen, S.S. (2012). Environmental management plan to improve the water quality of the Vavuniya irrigation tank.
36. Jayaweera, P.M.A. (2012). Effective stakeholder participation in integrated water resources management: A case study in Komarika Ela scheme.
37. Melvani, K. (2011). Bioremediation of nitrates in groundwater in Kalpitiya peninsula.
38. Herath, H.M.G.B. (2011). Impact of intensive agriculture on human health in Kalpitiya peninsula.
39. Sutharsiny, A. (2011). Characterisation of chemical quality of groundwater of Chunnakam aquifer in Jaffna Peninsula.
40. Mala Ramyalatha, T.D. (2011). Reasons for abandoning agro-wells in Ippalogama Divisional Secretary division in the Mahaweli system H.
41. Thuvarahan, P. (2011). Irrigation efficiency and water productivity in sandy regosol areas of the eastern coast of Sri Lanka.
42. Medagedara, S.N.K.D (2010). Gender issues in Water, Sanitation and Health sector (WaSH): A case study from Rothschild Estate in Sri Lanka.
43. Satheswaran, S. (2010) Water management issues in Pavatkulam irrigation scheme in Vavuniya.
44. Thangarajah, V. (2010) Sustainability of rainwater harvesting project implemented by Lanka Rainwater Harvesting Forum: A case study from Kalmunai and Navithanveli DS divisions in the Ampara district.
45. Sanjeepan, R. (2009) Drinking water quality of selected water supply wells in Vavuniya district.
46. Nayanakumari, K.A.M. (2009) Performance Evaluation of Lift Irrigation System of Rajangana Scheme
47. Gunawardana, K.G.W. (2009) Farmers' response to bulk water allocation: a case study in two Mahaweli hamlets.
48. Chamani Palliyaguru (2009) Contribution to climate change by rural women: A case study from Mahaweli System H.
49. Rohitha. U.V.S. (2009) Investigation on the problems of water shortage and water wastage in the command areas of RB-12 and RB-13 distributory channels of Gal Oya right bank.

50. Ranasinghe, N. (2009) Comparison of evapo-transpiration estimated by pan evaporation method and calculated by Penman-Montieth method at Angunakolapelassa.
51. Majurathan, A. (2009) Water quality of community wells in Palchanai village in the Batticaloa district.
52. Rohan Wijesooriya, H. T. (2008) A case study on community involvement in rural water supply.
53. Godigamuwa, S. B. (2008) Establishment of sustainable livelihood systems through watershed management: A review.
54. Sunil Shanthasiri, H. K. (2008) Gender participation in WatSan CBOs in Sri Lanka.
55. Warnakulasuriya, W.D. (2008) Impact of land tenure on investment in soil conservation measures in Kurundu Oya catchment.
56. Ranasinghe, W.S.C. (2008) Socio-economic aspects of landslides in Walapane area.
57. Ratnayake, G.S. (2008). Urban pollution in the Paradeka Oya watershed.
58. Ketheesan, Y. (2008). Impact of intensive agricultural practices on the groundwater quality at Nilaveli.
59. Thayanathan, K. (2008). Tank bed cultivation in the Mannar district.
60. Dhammith, M.A.A. (2007) Evaluation of water issuing methods: A case study from Tabbowa irrigation scheme.
61. Senarathna, W.A.S. (2007) Evaluation of the status of coconut-based drip irrigation system installed under subsidy scheme of coconut cultivation board in the Kurunegala district.
62. Wijesekara, D.L.B.P. (2007) Study on the effectiveness of the use of rainfall in on-farm water management: A case of Nachyaduwa major irrigation scheme.
63. Jayathilaka, P.M.S. (2006) Disparity in crop water requirement estimates: Gap between theory and practice in Sri Lanka.
64. Heenatigala, M. (2006) Status of women's involvement in Integrated Water Resources Management (IWRM) in the dry zone of Sri Lanka.
65. Indrajith, (2005) Potential for the use of deep groundwater for agriculture in the Anuradhapura district.
66. Wijesuriya, (2005) Rainwater harvesting for domestic use in the Badulla district.
67. Indiraj, T. (2005) Aggregate stability of Reddish Brown Earth Soils under different soil moisture and soil management conditions.
68. Kularathna, P.A.A.N. (2004) Surface water assessment of Mahagalkadawala Cascade in Kala Oya Basin.
69. Karunainathan, T. (2003) Aquifer characterisation in Mahaweli System G area in Sri Lanka.
70. Sasikumar, S. (2003) Socio-economic assessment of agro-wells in the coastal areas of Batticaloa district in Sri Lanka.

### **Undergraduate students' research projects supervised**

1. Jayasundara, R.B.C.D. (2020). Design and Evaluation of a Smart Groundwater Monitoring System (SGMS) for Kalpitiya Peninsula.
2. Kumara, K.H.T.R. (2015). Groundwater Contamination - Exposure, Consequences and Control in Kalpitiya, Sri Lanka.
3. Ekanayake, S.C. (2015). Investigation on Management Strategies to Improve the Irrigation Efficiency of Sprinkler Systems in Kalpitiya, Sri Lanka
4. Sudarshani, R. (2014). Effect of different crop establishment techniques on root development and morphological parameters in aerobically cultivated rice. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
5. Bandara, K.M.J.G.N.N.K.G. (2014). Effect of irrigation transformation on groundwater pollution in Kalpitiya Peninsula, Sri Lanka. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
6. Somathilake, K.V.P.M. (2014). Evaluation of a commercially available hydroponic system. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
7. Rajapaksha, R.N.S. (2014). Prevalence of myopia among schoolchildren: A case study from Narammala area, Sri Lanka. Faculty of Allied Health Sciences. University of Peradeniya, Sri Lanka.
8. Malkanthi, M.K.M. (2014). Dietary intake of nitrate in an intensively cultivated area: A case study from Nuwara Eliya district, Sri Lanka. Faculty of Allied Health Sciences. University of Peradeniya, Sri Lanka.
9. Thaliyanthan, S. (2012). Yield response of new-improved chilli varieties to water stress. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
10. Sajeewan, N. (2012). Performance of BG250 rice variety to aerobic water regimes. Faculty of Agriculture, University of Peradeniya, Sri Lanka.

11. Joseph, A.B. (2011). Evaluation of farmer-designed sprinkler irrigation system in Kalpitiya peninsula, Sri Lanka. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
12. Jeewanthi, K (2011). Prevalence of dental fluorosis in the Nikaweratiya division, Sri Lanka. Faculty of Allied Health Sciences. University of Peradeniya, Sri Lanka.
13. Wijesooriya W.M.S.K (2011). Satisfaction of rural community on nursing care: A case study from Kurunagala, Sri Lanka. Faculty of Allied Health Sciences. University of Peradeniya, Sri Lanka.
14. Gowryshangarasharma, N. (2010). Strategic assessment of water quality and water availability in Kilinochchi and Mullaitivu districts. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
15. Vijayakumar, R. (2009). Development of a database on hydraulic properties of the dry zone soils of Sri Lanka. Faculty of Agriculture, Eastern University, Sri Lanka.
16. Thuvarahan, P. (2009). Investigation on groundwater salinity in a NGO-managed settlement village in the Mannar district. Faculty of Agriculture, Eastern University, Sri Lanka.
17. Kumara, P.D.S.S. (2004). Impact Assessment of Minor Tank Rehabilitation. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
18. Jayamini, C.E. (2002). Effect of crack formation on land soaking in Reddish Brown Earth soils. Faculty of Agriculture, University of Peradeniya, Sri Lanka.
19. Pathmalatha, P. (1997) Modeling contaminant transport in rice fields. Faculty of Agriculture, University of Jaffna, Sri Lanka.

### **Contracted research studies**

1. Historical trends in averages and extremes of rainfall, temperature and runoff data of Sri Lanka. National Research Council (NRC).
2. Assessment of water productivity and nutrient dynamics in aerobic rice farming. Council for Agricultural Research Policy (CARP).
3. Development of household food Security models for poverty-stricken areas of Sri Lanka. National Science Foundation (NSF).
4. Drivers of change in groundwater-dependent economies in Kalpitiya Peninsula, Sri Lanka. International water management Institute (IWMI)
5. Water intervention for improving smallholder farming and rural livelihood. Food and Agriculture Organization (FAO), Bangkok - 3 months from February 2012.
6. Assessment of groundwater recharge potential in the Jaffna peninsula. International Water Management Institute (IWMI) - 12 months from November 2010.
7. Investigation on the groundwater salinity problem of a resettlement village in Mannar. Undertaken for ZOA Refuge Care Sri Lanka, 12 months, 2007.

### **Consultancies**

1. Technical Expert (Portfolio Development), FAO, July 2022
2. Technical Reviewer (National Consultant), FAO, July to September 2021.
3. Team Leader, Environmental Assessment for proposed water projects in Ambagamuwa and Nuwara Eliya Area Programmes, WV Lanka, May 2019.
4. Team Leader and Lead Consultant, Assessment of the impact of drought on smallholder farmers in Northern Province of Sri Lanka, for ILO through Industrial Service Bureau (ISB), Kurunegala. May-June 2018.
5. Team Leader, Environmental Assessment for Proposed Sanitation and Water Projects (Phase II) in Nuwara Eliya, Ambagamuwa and Kandy Area, WV Lanka, March –May 2018.
6. Team Leader, Development of watershed protection plan for World Vision Lanka's Water, Sanitation and Health implementation areas, October – December 2017.
7. Consultant, Environmental Assessment for proposed Sanitation and Water Projects (Phase I) in Nuwara Eliya, Ambagamuwa and Kandy Area, WV Lanka, July-August 2017.
8. Agricultural Engineer, Climate Change Resilience Improvement Project (CRIP), Department of Irrigation, Sri Lanka, June 2016 -
9. National Consultant / On-farm water management. FAO, Sri Lanka, Sept - Dec. 2014
10. Consultant / Climate resilience survey among farmers, IWMI, Sri Lanka, Sept. - Oct. 2014.
11. Irrigation Specialist / Project Completion Assessment of Dry Zone Livelihood Support and Partnership Programme (DZLiSPP). Funded by IFAD. April - May 2013.

12. Irrigation Specialist / Base Line Survey for the Iranamadu Irrigation Development Project, Kilinochchi, Sri Lanka. Funded by IFAD. November - December 2012.
13. National Consultant / Partner - Water intervention for improving smallholder farming and rural livelihoods in Asia. AIT and FAO, Bangkok. February - April 2012.
14. National Specialist (Irrigation) – Assessment of the sustainability of minor tank rehabilitation program in Trincomalee and Batticaloa districts. FAO, Sri Lanka, April 2011.
15. Gender Evaluation (a baseline study) for World Vision Lanka (Mannar), September 2009.
16. National Consultant (Water Sector) - Needs Assessment and Rehabilitation Programme, FAO, Sri Lanka. Conducted assessment in Vavuniya, Mannar and Jaffna districts, July 2009.
17. Initial Environment Assessment (a baseline study) for World Vision Lanka (Mannar), May 2009.
18. Evaluation of Transformation Development Indicators (Social Sustainability) for World Vision Lanka (Mannar), March 2009.
19. Final evaluation of ECHO-funded Food Security Project implemented by ZOA Refuge Care Sri Lanka in Mannar, Kilinochchi, Trincomalee, Batticaloa, Ampara, Anuradhapura and Jaffna districts, December 2008.
20. Evaluation of the “Gender and Water Dialog” program for Cap-Net Lanka, August 2008.
21. Process Documentation of “Community Development Forum (CDF)” of the Plantation Community Development Project (PCDP) of CARE International Sri Lanka, April 2008.
22. Midterm evaluation of the EU-funded “Uprooted People Water, Agriculture, Resource and Development (UPWARD)” Project implemented by CARE International-Sri Lanka in Anuradhapura, Vavuniya, Kilinochchi, Mullaitivu and Trincomalee districts. April 2008.
23. Six days of coaching to Women for Peace and Good Governance (WPGG); a local NGO in Peradeniya on institutional development and organisational strengthening, March 2007.
24. Three days of coaching to SaViTRI ; a local NGO in Hatton, on proposal formulation for a peace-building project, January 2007
25. Four days of coaching to Sri Lanka Television Training Institute (SLTTI); a government institute in Colombo on proposal formulation for a peace-building project, November 2007.
26. Final evaluation of two ECHO-funded Resettlement and Rehabilitation Project implemented by ZOA Refuge Care Sri Lanka in Mannar, Kilinochchi, Trincomalee, Batticaloa, Ampara, Anuradhapura and Jaffna districts, October 2007.
27. Final evaluation of ECHO-funded Rehabilitation Project (ECHO / - SA/BUD/ 2005/ 02006) implemented by ZOA Refuge Care in Kilinochchi and Mannar Districts, August 2006.

## Outreach activities

1. Treasurer, Agricultural Engineering Society of Sri Lanka, 2002 - 2005.
2. General Secretary, Alumni Association of the Postgraduate Institute of Agriculture (AAPGIA), 2003 - 2005.
3. Editor, Alumni Association of the Postgraduate Institute of Agriculture (AAPGIA), University of Peradeniya, Sri Lanka, 2000 - 2001.

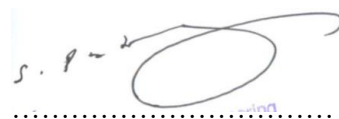
## Memberships

1. Life Member of the Asian Association for Agricultural Engineers (AAAE).
2. Life Member of the Agricultural Engineering Society of Sri Lanka (AESSL).
3. Life member of the Soil Science Society of Sri Lanka (SSSL).
4. Life member of the National Agricultural Society of Sri Lanka (NASSL).
5. Life Member of the Sri Lanka Association for the Advancement of Science (SLAAS).
6. Member of the International Society for Improving Training Quality (isITQ).

I do hereby certify that the above details furnished by me are true and correct to the best of my knowledge.

.... 01 January 2023....

Date



Signature

(S. Pathmarajah)