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Date of Birth: 21st February, 1985
Marital status: Married
National ID number: 855523558V

Education:

- **Mphil (reading) Post Graduate Institute of Science**, University of Peradeniya
- **BSc Special Degree in Environmental Sciences and Natural Resources**
- **Management, 2nd Class Lower Division**, Sabaragamuwa University of Sri Lanka, 2006/2007
- **Secondary Education**, Sanghamitta Girls College, Galle, 2005

Employment:

Research Assistant, Chemical and Environmental Systems Modeling Laboratory, National Institute of Fundamental Studies, Kandy, Sri Lanka (September 2012- to July 2015)
Volunteer Research Assistant, Chemical and Environmental Systems Modeling Laboratory, National Institute of Fundamental Studies, Kandy, Sri Lanka (March 2012-to September 2012)

Professional Experience:

Water quality analysis
Waste water and leachate analysis
Soil Analysis
Conducting column, adsorption and desorption experiments
Hands on experience in Statistics and Computer Science
Handling analytical instruments (UV-visible spectrophotometer, FTIR, AAS and GC)

Writing Skills:

Articles in International Peer Reviewed Journals

- **S.S. Mayakaduwa**, Prasanna Kumarathilaka, Indika Herath, Mahtab Ahmad, Mohammed Al-Wabel, Yong Sik Ok, Adel Usman, Adel Abduljabbar and Meththika Vithanage. 2015. Equilibrium and kinetic mechanisms of woody biochar on aqueous glyphosate removal. Chemosphere Journal
- Meththika Vithanage, **S.S. Mayakaduwa**, Indika Herath, Yong Sik Ok, Dinesh Mohan. 2015. Kinetics, thermodynamics and mechanistic studies of carbofuran removal using biochars obtained from tea waste and rice husks. Chemosphere Journal
- S.S.R.M.D.H.R. Wijesekara, **Sonia S. Mayakaduwa**, A. R. Siriwardana, Nalin de Silva, B.F.A. Basnayake, Ken Kawamoto, Meththika Vithanage. 2013. Transport fate of pollutants through a municipal solid waste landfill leachate in Sri Lanka. Journal of Environmental Earth Sciences
- Meththika Vithanage, Indika Herath, S.S. Achinthya, **S.S. Mayakaduwa**, Tharanga Bandara, Lakshika Weerasundara, Yohan Jayawardana, Prasanna Kumarathilaka,

Iodine in Commercial Edible Iodized Salt and Assessment of Iodine Exposure in Sri Lanka; Implications for Iodine Induced Hyperthyroidism. 2016. Archives of Public Health (Accepted)

- **S.S. Mayakaduwa**, Meththika Vithanage, Anurudda Karunaratna, Dinesh Mohan, Yong Sik Ok, Interface interactions of insecticide carbofuran with tea waste biochars produced at different pyrolysis temperatures. 2016. Chemical Speciation and bioavailability (Reviewing)

Book chapters

- Kumarathilaka, P., **Mayakaduwa, S.**, Herath, I., Vithanage, M., Biochar: State-of-the-art. In (Ed.) Ok YS, Uchimiya SM, Chang SX and Bolan N, Biochar: Characterization and Applications, CRC press, Taylor & Francis
- Meththika Vithanage, S.S.R.M.D.H.R. Wijesekara, A.R. Siriwardana, **Sonia S Mayakaduwa** and Y.S. Ok. Management of Municipal Solid Waste Landfill Leachate: A Global Environmental Issue. Environmental Deterioration and Human Health: Natural and anthropogenic determinants. In: Abdul Malik, Elisabeth Grohmann and Rais Akhta (Ed). Springer, The Netherlands, pp 236-287 (DOI 10.1007/978-94-007-7890-0_11)

Abstract Publications in International Conferences

- **Mayakaduwa, S.S.**, Weerasundara, L., Karunaratne, A., Basnayake, B.F.A., Vithanage, M. Municipal solid waste derived biochar for removal of humic acid in landfill leachate, International Conference on Solid Waste 2015. Hong Kong, China. 5-9 May, 2015
- **Sonia Mayakaduwa**, Prasanna Kumarathilaka, Dinesh Mohan, Meththika Vithanage. Carbofuran interaction with biochar derived from disposable tea waste. CLEAR 2014, 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea. 5-8 October, 2014
- **Mayakaduwa, S.S.**, Vithanage, M., Karunaratne, A., Mohan, D. Use of biochar produced from tea residues to remove carbofuran from water. Proceedings of the Peradeniya University International Research Sessions 2014. Faculty of Science, University of Peradeniya, Sri Lanka. 4-5 July, 2014
- **Mayakaduwa, S.S.**, Wijesekara, S.S.R.M.D.H.R., Siriwardana, A.R., Basnayake, B.F.A., Vithanage, M. Evaluation of physicochemical characteristics, heavy metals and humic substances in leachate generated from Gohagoda municipal solid waste dumpsite. International Conference on Solid Waste 2013. Hong Kong, China. 4-10 May, 2013
- **Mayakaduwa, S.S.**, Siriwardana, A.R., Wijesekara, S.S.R.M.D.H.R., Basnayake, B.F.A., Vithanage, M. Characterization of landfill leachate draining from Gohagoda municipal solid waste open dumpsite for dissolved organic carbon, nutrients and heavy metals. Asian Pacific Landfill Symposium 2012. Bali, Indonesia. 8-12 October, 2012

Abstract Publications in Local Conferences

- Yohan Jayawardhana, **Sonia Mayakaduwa**, Prasanna Kumarathilaka, Anurudda Karunaratna, B.F.A. Basnayake, Meththika Vithanage, Potential use of municipal solid waste biochar for the remediation of toluene generated from the Gohagoda landfill site, Sri Lanka, 5th International Conference on Sustainable Built Environment ICSBE – 2014, Kandy, Sri Lanka. 12, 13, 14 December, 2014
- Wijesekara, S.S.R.M.D.H.R., Mahatantila, K., Eheliyagoda, D.R.M.R.D.P., **Mayakaduwa, S.S.**, Basnayake, B.F.A, Vithanage, M. Fate and transport of pollutants generated from the Gohagoda open dump site, Kandy, Sri Lanka. International

Symposium on Water Quality and Human Health: Challenges Ahead. PGIS, Peradeniya, Sri Lanka. 22-23 March, 2012

- **Mayakaduwa, S.S.**, Mahatantila, K., Gunathilaka, S.K., Vithanage, M. Physico-chemical characterization of leachate draining from Gohagoda municipal solid waste dumpsite. Mini Symposium 2012. Faculty of Applied Sciences, Sabaragamuwa University of Sri Lanka, Belihuloya. February, 2012

Other capacities:

- Sinhala Translation-Annual Review of Institute of Fundamental Study 2012 and 2013
- Certificated for the participation in a short course on Statistics for Environmental Sciences, Institute of Fundamental Studies, Kandy, 3-24 October 2013.
- Certificated for the participation in seminar “Agrochemicals: Their analysis, Impact on Human Health and Environment and Remedial Measures”, Institute of Chemistry of Ceylon, Adamantane House, Rajagiriya. 29th May 2014.

Professional Activities:

Associations

- Member– Field Ornithology Group of Sri Lanka (FOGSL), University of Colombo
- Member– Society of Natural Resources Studies (SNRS), University of Sabaragamuwa.

References:

Dr. Meththika Vithanage, National Institute of Fundamental Studies, Hanthana Road, Kandy, Sri Lanka. E-mail: meththikavithanage@gmail.com

Dr. Anuruddha Karunarathna, Department of Agriculture Engineering, University of Peradeniya, Peradeniya, Sri Lanka. E-mail: anujica@yahoo.com