



Yohan Buddika Jayawardhana

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1. Career Development

- **Research Assistant**, Chemical and Environmental Systems Modeling Research Group, National Institute of Fundamental Studies, Hantana Road, Kandy, Sri Lanka (January 2016- to date)
- **Research Assistant**, In collaboration with Department of Civil Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka and Chemical and Environmental Systems Modeling Research Group, National Institute of Fundamental Studies, Hantana Road, Kandy, Sri Lanka (August 2014- December 2015)
- **Geologist**, GEO Corporation Ltd, No.299, Galle Road, Colombo 03, Sri Lanka (November 2013 - August 2014)
- **Naturalist**, Eco Team (Pvt) Ltd, Fairfield Gardens, Colombo 08 (May 2013- October 2013)

2. Academic Profile

POSTGRADUATE EDUCATION (READING)

Degree	M.Phil. in Environmental Sciences
University	Postgraduate Institute of Science, University of Peradeniya, Sri Lanka
Duration	March 2015- to date
Medium of instruction	English
Thesis title	Potential use of municipal solid waste derived biochar for remediation of volatile organic compounds in landfill leachate

UNDERGRADUATE EDUCATION

Degree	B.Sc. (Applied Sciences) Special in Environmental Sciences and Natural Resource Management, 2 nd Class Lower Division
University	Sabaragamuwa University of Sri Lanka, Sri Lanka
Duration	4 years (November 2008 to May 2013)
Medium of instruction	English
Thesis title	Application of GIS and RS Techniques to Identify Farmer's Contribution for Soil Erosion in Upper Mahaweli Catchment

SECONDARY EDUCATION

- R/ Gankanda Central College, Pelmadulla (1998- 2007)

3. Professional Experience

INSTRUMENTATION

Gas Chromatography Mass Spectrometry (GC-MS), Gas Chromatography (GC), Ion Chromatography (IC), Ultra Performance Liquid Chromatography (UPLC), Atomic Absorption Spectroscopy (AAS), Fourier Transform Infrared Spectroscopy (FTIR), UV-Visible Spectrophotometer, Uses of Auto Titrator and Ion Selective Electrodes (ISE), Borehole Drilling Machine, Single Packer

FIELD OF INTERESTS

- Analysis of volatile organic compounds generated from landfill sites
- Water and wastewater treatment technologies
- GIS and remote sensing analysis in environmental science

4. Research Publications

ARTICLES IN SCIENCE CITATION INDEX JOURNALS

- Meththika Vithanage, **Yohan Jayawardhana**, Kumarathilaka, S.S. Mayakaduwa, Sewwandi Gamage (2016). Utilization of municipal solid waste derived biochar for the removal of volatile organic compound, benzene from landfill leachate. Environmental Technology (Under review)
- Prasanna Kumarathilaka, **Yohan Jayawardhana**, B. F. A. Basnayake, M. I. M. Mowjood, M. Nagamori, Takeshi Saito, Ken Kawamoto, and Meththika Vithanage. Characterizing volatile organic compounds in leachate from Gohagoda municipal solid waste dumpsite, Sri Lanka. Groundwater for Sustainable Development 2 (2016): 1-6.
- Meththika Vithanage, Indika Herath, S. S. Achinthya, Tharanga Bandara, Lakshika Weerasundara, S. S. Mayakaduwa, **Yohan Jayawardhana**, and Prasanna Kumarathilaka. Iodine in commercial edible iodized salts and assessment of iodine exposure in Sri Lanka. Archives of Public Health 74, no. 1 (2016): 1.

BOOK CHAPTERS

- **Yohan Jayawardhana**, Prasanna Kumarathilaka, Indika Herath, Meththika Vithanage (2016). Municipal solid waste produced biochar application for prevention of landfill leachate pollution. In (Eds.) Prasad MNV, Shih K., Environmental Materials and Waste: Resource Recovery and Pollution Prevention, Elsevier, USA

PAPER PUBLICATIONS IN INTERNATIONAL CONFERENCES

- Meththika Vithanage, **Yohan Jayawardhana**, Lakshika Weerasundara, Prasanna Kumarathilaka, B.G.N. Sewwandi. Municipal solid waste biochar remediate its own waste: Removal of dissolve organic carbon and volatile organic compounds in landfill leachate. SCA-16, Colombo, Sri Lanka, May 30, June 01, 2016
- Prasanna Kumarathilaka, **Yohan Jayawardhana**, Wasantha Dissanayaka, Indika Herath, Lakshika Weerasundara, Meththika Vithanage. General characteristics of hospital wastewater from three different hospitals in Sri Lanka, 6th International Conference on Structural Engineering and Construction Management 2015, Kandy, Sri Lanka, 11-14 December 2015

- **Yohan Jayawardhana**, Prasanna Kumarathilaka, Lakshika Weerasundara, Mohammed Mowjood, Gemunu Herath, Ken Kawamoto, Masanao Nagamori, Meththika Vithanage, Detection of benzene in landfill leachate from Gohagoda and its removal using municipal solid waste derived biochar, 6th International Conference on Structural Engineering and Construction Management 2015, Kandy, Sri Lanka, 11-14 December 2015
- Indika Herath, Prasanna Kumarathilaka, **Yohan Jayawardhana**, Sonia Mayakaduwa, Tharanga Bandara, Subhash Wickramasinghe, Meththika Vithanage. Rice husk derived engineered biochar for glyphosate removal in aqueous media: Engineered biochar for pesticides removal. International Conference on Clean Water, Air & Soil, Malaysia. 28-30 August 2015. Springer international publishing (ISBN: 978-3-319-26170-6)
- **Yohan Jayawardhana**, Meththika Vithanage, Ken Kawamoto, Junko Hara, Ming Zhang. Vector Based GIS Applications to Select Suitable Land for Landfill Sitting in Kandy, Sri Lanka. 3rd International Symposium on Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS – 2015) University of Ruhuna Sri Lanka, 9th March 2015 (ISSN 2279-1329)
- **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, Kandy, Sri Lanka. 12-15 December 2014 (ISBN:978-955-589-187-5)

ABSTRACT PUBLICATIONS IN INTERNATIONAL CONFERENCES

- **Jayawardana B.A.Y.B**, Udayakumara E.P.N, Dammalage T. and Fowze J.S.M. Application of GIS and RS Techniques to Identify Farmer's Contribution for Soil Erosion in Upper Mahaweli Catchment. 1st International Symposium on "Environment Management and Planning" Central Environmental Authority 23rd – 24th February 2015. (ISSN 2424 – 6603)

5. Science Popularization

NEWSPAPER ARTICALS

- පරිසරයටත් ජන ජීවිතයටත් හානියක් නොවන ලෙස කසල බැහැර කරන්න GIS තාක්ෂණය (GIS technology for sustainable practices of waste landfill selection) 13th March 2015. **Dawasa**.

TEACHING

- Instrumentation lecture on waste and waste water analysis to the post graduate students, water and environment engineering, University of Peradeniya.
- Teaching wastewater analysis practical's to the postgraduate students, Postgraduate Institute of Agriculture, University of Peradeniya

6. Training and development

TRAINING PROGRAMMES / FIELD STUDIES ATTENDED

- Waste management technologies, practices, and site selection with the GIS techniques under the project of Development of Pollution Control and Environmental Restoration Technologies of Waste Landfill Sites Taking into Account Geographical Characteristics in Sri Lanka.
- Waste Management practices and Environmental Pollution Control Measures & Risk Assessment studies in Board of Investment, Biyagama and Holcim Lanka, Puttalam

- Energy Recourse Management Techniques study in National Engineering Research and Development center, Colombo
- Carrying out geotechnical investigations in Badulla, Hali-ela, Ella integrated Water Supply Project under Geo Corporation Ltd. Furthermore Dam site geotechnical investigations, borehole logging, geological and hazard zonation mapping (ArcGIS)
- Participation in Scientific Preparatory Meeting on Sri Lanka's Continental Shelf Margin Claim defense at the Geological Surveys and Mines Bureau
- Mines and geological studies in Bogala- Graphite, Galaha- Quartz, Mathale- Topaz & Feldspar, and Eppawala- Phosphate deposits
- Biodiversity Conservation, Utilization & Management studies in Sinharaja Man and the Biosphere Reserve
- Part time field researcher for Carbon Consulting Company in Sri Lanka. Worked involved, forest mensuration and Identification of trees and data tabulation of base load carbon estimation of home gardens - Hiniduma bio linkage project in tropical wet zone of Sri Lanka in Kanneliya
- Field Techniques of the study of Natural Resources in Horton Plane National park
- Bird study field techniques workshop at ornithological field study & monitoring center, Belihul-oya
- First national survey on Elephant in Sri Lanka, Udawalawe National Park

PROFESSIONAL DEVELOPMENT

- Chromatographic Techniques and Their Applications, Institute of Chemistry Ceylon, Sri Lanka, 26th February 2015
- 6th National workshop on Scientific Writing, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka, 4th-5th December 2014

PROFESSIONAL AFFILIATIONS

- **Ordinary Member** – Geological Society of Sri Lanka
- **Member** –Carbon consulting research team
- **Member** - Young Researchers’ Forum, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka
- **Associate Member** - Field Ornithology Group of Sri Lanka (FOGSL), University of Colombo, Sri Lanka

LEADERSHIP ROLES

- **Organizing committee member:** “Driving Research Towards Economy”, SLAYS 2nd International Symposium, Kandy, 13-14 November 2014
- **Student representative:** Department of Natural Resources, Sabaragamuwa University of Sri Lanka (2011-2013)

7. Personal Details


Name in full : Bogoda Arambe Yohan Buddika Jayawardhana
Name with initials : Jayawardhana B. A. Y. B
Current designation : Research Assistant
Official address : Chemical and Environmental Systems Modeling Research Group,
National Institute of Fundamental Studies, Hantana Road, Kandy,
Sri Lanka.
Date of Birth : 27th of October 1987
Gender : Male
Nationality : Sri Lankan

8. Non Related Referees

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I hereby certify that the above information given by me is correct to the best of my knowledge


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(Jayawardhana B. A. Y. B)

07.06.2016

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(Date)