

**J. A. Surani Chathurika**

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**CAREER VISION**

To be a professional in science and technology field through hard working and working with teams while improving my skills and knowledge and to serve the best for the organization.

**EDUCATIONAL QUALIFICATIONS**

**Higher Education**

**PhD in Soil Science at Postgraduate Institute of Agriculture, University of Peradeniya**  
(Effective Date – 2016. 03. 08).

**M.Sc. in Environmental Soil Science at Postgraduate Institute of Agriculture,**  
**University of Peradeniya with FGPA of 3.94** (Date of Admission- 2009/11/06,  
Effective date – 2010/12/15)

**Bachelor of Science special Degree in Agricultural Technology & Management**

(Date of Admission- 2005/05/02, Effective date – 2009/04/27)

Specialization module: **Soil Science**

**Secondary Education**

1. General Certificate of Education (Advanced Level) - 2004  
**Biology – B, Chemistry – C, Physics – C**
2. General Certificate of Education (Ordinary Level) - 2000  
**Eight Distinctions, Three Credit passes**

## RESEARCH STUDIES

- PhD Research on **Improving soil fertility of low productive lands by beneficial management practices for Maize ( *Zea mays* )**
- MSc. Research on **Arbuscular mycorrhizae infection in Carrot (*Daucus carota*) and Leeks (*Allium ampeloprasum*) as affected by available P in soil**
- Final year research on **Growth, litter accumulation and litter decomposition of *Mucuna bracteata* cover crop under rubber**

## SCHOLARSHIPS AND AWARDS

- Canadian Commonwealth Scholarships Program - Graduate Students' Exchange Program
  - for six months at Department of Environmental Studies and Sciences, University of Winnipeg, Manitoba, Canada
- World Bank Scholarship for Higher Education in Twenty first Century for PhD degree
  - for 3 years at PGIA, UOP
- International Plant Nutrient Institute (IPNI) scholar award for 2014 (In recognition of an outstanding scholastic record, and in appreciation of contribution to the agricultural sciences)
- Travel award for 20<sup>th</sup> World Congress of Soil Science (Jeju, Korea, June, 2014)
- Winner of the awards for the runner-up for the overall Best Presenter at PGIA-annual Congress 2015
- The Best Presenter in the session on Soil Science at PGIA-annual Congress 2015.

## PUBLICATIONS

**Chathurika, J.A.S.**, Kumaragamage, D, Indraratne, S.P and Dandeniya, W. S. Improving Soil Fertility, Soil Carbon Pool, and Yield of Maize (*Zea Mays* L.) of Low-Fertile Tropical Alfisols by Combining Fertilizers with Slow-Decomposing Organic Amendments. Journal of Agricultural Science. Accepted for publication with the revisions.

**Chathurika, J.A.S.**, D. Kumaragamage, F. Zvomuya, O.O. Akinremi, D. Flaten, S.P. Indraratne, and W.S. Dandeniya (2016). Woodchip biochar with or without synthetic fertilizers affects soil properties and available phosphorus in two alkaline, Chernozemic soils. Canadian J. Soil Science. 96: 472-484

**Chathurika, J.A.S.**, Indraratne, S.P, Dandeniya, W. S. and Kumaragamage, D. (2015). Beneficial Management Practices on Growth and Yield Parameters of Maize (*Zea maize*) and Soil Fertility Improvement. Tropical Agricultural Research. 27 (1): 59-74.

**Chathurika, J.A.S.**, Indraratne, S.P and Dandeniya, W. S. (2014) Site specific fertilizer recommendations for maize (*Zea mays*) grown in reddish brown earth and reddish brown latasolic soils. Tropical Agricultural Research, 25 (3): 287-297.

**Chathurika, J.A.S.**, Samarappuli, L. and Mapa, R.B. (2010) Litter Accumulation from *Mucuna bracteata* Cover Crop and its Effects on Soil Properties in Rubber Plantations. Journal of Rubber Research Institute of Sri Lanka.47-51.

### **Publications in Conference Proceedings**

Senevirathne, I.G., **Chathurika, J.A.S.**, Gunawardene, M., Siriwardena, A., Purasinhala, K. and Amaratunga, G. Application of an Electric Potential to Retain Plant Nutrients around the Root Zone in Rice (*Oryza sativa* L.). 21<sup>st</sup> world congress of soil science. Accepted for publication.

**Chathurika, J.A.S.**, Indraratne, S.P., Dandeniya W.S. and Kumaragamage D. Amendments to increase maize (zea maize) yield in an alfisol in Sri lanka. Joint meeting of the Canadian Society of Soil Science, Manitoba Soil, Science Society and Canadian Society of Agricultural and Forest Meteorology. July 5-10, 2015, Montreal, QC, Canada. 5<sup>th</sup> to 10<sup>th</sup> July 2015.

**Chathurika, J.A.S.**, Indraratne, S.P., Dandeniya W.S. and Kumaragamage D. Amendments to improve soil fertility and increasing maize (*Zea maize*) yield in mid country Sri Lanka. Annual meeting of American Society of Agronomy, Crop Science Society of America and Soil Science Society of America. Long beach, California. 2<sup>nd</sup> to 5<sup>th</sup> November 2014.

Mariaselvam, A. A., **Chathurika, J. A. S.**, Dandeniya, W. S., Indraratne, S. P. and Dharmakeerthi, R. S. Evaluation of cattle manure-sawdust mixture and bio-char as potential organic amendments for improving soil fertility. Proceeding of the One Health International Conference, University of Peradeniya, 5 - 6 September, 2014.

**Chathurika, J.A.S.**, Indraratne, S.P., Dandeniya W.S. and Kumaragamage D. Amendments to improve soil properties in achieving high yield for maize (*Zea maize*). Proceeding of the Peradeniya University International Research Sessions, University of perdeniya, 4<sup>th</sup> -5<sup>th</sup> July 2014. 18:400.

**Chathurika, J.A.S.**, Indraratne, S.P., Dandeniya W.S. and Kumaragamage D. Beneficial Soil Management Practices for Yield of Maize (*Zea maize*) Grown in Reddish Brown Earth and Reddish Brown Latasolic Soils in Sri Lanka. In Biochar soil amendment for environmental and agronomic benefits. 20<sup>th</sup> world congress of soil science, Jeju, Korea, 8<sup>th</sup> to 13<sup>th</sup> June, 2014.

**Chathurika, J.A.S.**, Indraratne, S.P. and Dandeniya W.S. (2013) Site specific nutrient management for low productive soils from two agro-ecological zones of Sri Lanka. Proceedings of the International Symposium on Agriculture and Environment 2013. Nov 28<sup>th</sup> 2013. Faculty of Agriculture, University of Ruhuna: 209-213.

**Chathurika, S.**, Kumaragamage, D., Zvomuya, F. and Flaten, D. (2013) Influence of Wood Chip Biochar on Soil Phosphorus Dynamics in Selected Low Phosphorous Soils. Joint meeting of the Canadian Society of Soil Science, Manitoba Soil, Science Society and

Canadian Society of Agricultural and Forest Meteorology. July 22-25, 2013. Winnipeg, Manitoba: 45.

**Chathurika, J.A.S.,** Indraratne, S.P and Dandeniya, W. S. (2012) Soil fertility constraints identified for low productive Alfisol Mahalluppallama. Proceeding of the Peradeniya University Research Sessions, 17:166.

**Chathurika, J.A.S** and Rajapaksha R.M.C.P. (2010) Arbuscular Mycorrhizae Infection in Carrot (*Daucus carota*) and Leeks (*Allium ampeloprasum*) as Affected by Available P in Soil. Proceeding of the Peradeniya University Research sessions, 15:269-271

### WORKING EXPERIENCES

<b>Title of the Job</b>	<b>Address of the Employee</b>	<b>Period</b>
Post-Doctoral Fellow/ Research Fellow	Sri Lanka Institute of Nanotechnology, Mahenwatta, Pitipana, Homagama.	From 07 <sup>th</sup> September 2016 to date
Adjunct Senior Lecturer Grade II	SLINTEC Academy	From 01 <sup>st</sup> of January 2018 to date
Lecturer (Temporary)	Department of Soil Science, Faculty of Agriculture, University of Peradeniya, Peradeniya	From 01 <sup>st</sup> of March 2016 05 <sup>th</sup> September 2016
Graduate Research Assistant	World Bank granted HETC-QIG-W3 project. Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya.	From 2012.05.01 to 2015.11.01
Plantation Monitoring Officer	Ministry of Plantation Industries, 11 <sup>th</sup> Floor, Sethsiripaya Stage ii, Battaramulla	1 <sup>st</sup> of June 2011 to 02 <sup>nd</sup> May 2012
Temporary demonstrator	Department of Soil Science, Faculty of Agriculture, University of Peradeniya, Peradeniya	18 <sup>th</sup> May 2009 to 1 <sup>st</sup> June 2011

### OTHER EXPERIENCES OBTAINED

- Worked as a PhD trainee student at University of Winnipeg, Manitoba for six months.
- Extended my service to the HETC/QIG/W3/PGIA project team as a project assistant acquiring more experience in project management including procurement planning and documentation after my PhD thesis submission.

- Volunteered in several teaching, research and outreach activities conducted by the Department of Soil Science. (While serving as a research assistant I have extended my help in conducting practical classes for undergraduate students at the Department of Soil Science, Faculty of Agriculture, University of Peradeniya.)
- Provided assistance for analyzing soil and water samples received by the Soil Analytical Service of the Department of Soil Science, Faculty of Agriculture, University of Peradeniya.
- Helped conducting demonstration at short courses conducted by the Board of Study in Soil Science, PGIA, University of Peradeniya to the technical officers engaged in soil, plant and water analysis in Sri Lanka.
- Extended support to the Department of Soil Science, Faculty of Agriculture, University of Peradeniya to organize and conduct a book launching and two exhibitions for school children commemorating the International year of soils - 2015.
- Served as a resource person in field days and training workshops conducted to farmers and agricultural instructors in Rahangala, Anuradhapura and Jaffna to disseminate knowledge generated through HETC/QIG/W3/PGIA project.
- Six months working experience at Soil and Plant Nutrition Department, Rubber Research Institute, Sri Lanka. (Under graduate research project)
- Three weeks industrial training at Soil and Plant Nutrition Department, Rubber Research Institute, Sri Lanka.

### **OTHER QUALIFICATIONS**

- Successfully followed a Certificate Course in Human Resources Management at Institute of Personal Management.
- Followed a workshop on Geological Information System at the University of Peradeniya.
- Followed a National Certificate of Computer Application course conducted by National institute of education and ministry of higher education.
- Successfully completed the certificate course in English language conducted by the Institute of Workers' Education
- Sound knowledge in working with SAS and MINITAB statistical packages

## EXTRACURRICULAR ACTIVITIES

- Part time academic sub warden in “Sangamiththa hall” , University of Peradeniya for four months
- Life member of the Soil Science Society of Sri Lanka.
- Editor of Soil Science Society, University of Peradeniya 2007/2008 and handle the Geographical Information System workshop.
- Active member of Information and technology Society University of Peradeniya 2005/2008 and handle work shop on Introduction to Macromedia Flash.
- Team Leader in organic fertilizer section Agriculture Faculty 60th Anniversary Exhibition – 2008

## PERSONAL DETAILS

**Name in Full** : JAYATHUNGA ARACHCHIGE SURANI CHATHURIKA  
**Name with Initials** : Chathurika J. A. S  
**Address** : 629/A, 1<sup>st</sup> lane, Piriwena Road, Boralesgamuwa.  
**E-mail** : suranichathurika@yahoo.com  
**Date of Birth** : 13 May 1984  
**Gender** : Female  
**Civil Status** : Married  
**N.I.C No** : 846340220V  
**Religion** : Buddhism  
**Nationality** : Sri Lankan

## REFEREES

Prof. S.P Indraratne

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and Sciences,  
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Manitoba,  
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I do hereby certify that the particulars are furnished by me are true and correct to the best of my knowledge and belief.

Thank you.

J.A. Surani Chaturika