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### Educational Qualifications

1. **Ph.D. in Hydraulic Engineering**, Sejong University, South Korea (2016 – 2022) and thesis on “Development of surrogate model for estimation of evapotranspiration based on temperature and its use for flash drought assessment.”
2. **M.Phil. in Integrated Water Resources Management**, Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya (GPA - 3.94/4.00) and thesis on “Assessment of Institutional Arrangements for Water Resources Management in Sri Lanka” (2007-2010).
3. **B. Sc. (Agric) Honors, Majored Agricultural Engineering**, University of Peradeniya. (GPA – 3.39/4.00) (2003–2007).

### Employment Qualifications

1. **Lecturer (Probationary)** – Department of Agriculture, Faculty of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka *(9/11/2021 – up to date)*
2. **Research Student (Ph.D. Engineering)** – Sejong University, South Korea *(2018 – 2022)*.
3. **Research Student (Ph.D. Engineering)** – Chonbuk National University, South Korea *(2016 – 2018)*.
4. **Intermediate Research Scientist** –Foundation for Environment, Climate and Technology. *(08/03/2012 to 30/06/2014)*
5. **Visiting Scientist**– APEC Climate Center, South Korea *(03/09/2012 to 30/11/2012)*
6. **Junior Research Scientist** – Masters in Development Practice, Foundation for Environment, Climate and Technology. *(08/03/2011 to 07/03/2012)*
7. **MDP Coordinator**– Masters in Development Practice, Foundation for Environment, Climate and Technology. *(08/03/2011 to 30/06/2014)*
8. **Research Assistant** – Preparation of drought hazard maps/digital data base for Sri Lanka, Faculty of Agriculture, University of Peradeniya and Disaster Management Center, Sri Lanka *(01/06/2010 to 28/02/2011)*
9. **Hydraulic Analysts** – Weligepola Pradeshiya Saba, Rathnapura *(26/03/2010 to 30/05/2010)*
10. **Research Student {M.Phil. Integrated Water Resources Management (IWRM)}** - Scholarship of South Asian Water fellow (SAWA) offered by Crossing Boundaries Project,

SachiWATERs, India and Wageningen University, Netherlands (2007 – 2010). Postgraduate Institute of Agriculture (PGIA), University of Peradeniya.

11. **Temporary Lecturer** - Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya (09/08/2007 to 31/12/2007).
12. **Assistant Coordinator & Research Assistant** - Cap-Net Lanka Organization, Sri Lanka (14/06/2007 to 09/08/2007)

### **Academic Distinctions and Scholarships**

1. **Certificate of Excellence Award** for poster presentation at **Smart Water grid International conference -2018**, South Korea
2. Adjudged the **best student presentation at the 2<sup>nd</sup> International Conference on Climate Change (2018)**, Sri Lanka.
3. Adjudged the **best research paper at the Conference of Korean Society of Civil Engineers (2017)**, South Korea.
4. **Recipient of Scholarships for PhD. In Civil Engineering Department** at Chonbuk National University for 2016 to 2018
5. **Recipient of Scholarship for M.Sc. degree in Integrated Water Resource Management** at the Postgraduate Institute of Agriculture under the (SAWA) scholarship program – Crossing Boundaries project 2007/08
6. Adjudged the **best research paper at the Twenty Second Annual Congress (2010)**, Postgraduate Institute of Agriculture, University of Peradeniya
7. As a **student of the Postgraduate Institute of Agriculture, University of Peradeniya, was adjudged the best research paper at the Twenty Second Annual Congress (2010)**, Postgraduate Institute of Agriculture, University of Peradeniya
8. As a student of the Postgraduate Institute of Agriculture, University of Peradeniya, was adjudged the **best in the session on “Land and Water Resources Management and Postharvest Engineering”, at the Twenty Second Annual Congress (2010)**, Postgraduate Institute of Agriculture, University of Peradeniya

### **Other Professional Qualifications**

1. **Country Coordinator** – Cap-Net Lanka. (01/01/2023 – up to date)
2. **Reviewer** – **Journal of Groundwater for Sustainable Development.**
3. **Reviewer** – **Cogent Environmental Science**

4. **Reviewer and Evaluation panel member** for International Conference on Agriculture, Sri Lanka. (2018 - 2022)
5. 10-Days (30-Hours) **Short training on Applied Machine Learning & Its Applications with Python** – 27 Jan-7 Feb, 2021, Eduxlabs in association with E-Cell IIT Hyderabad, India. (2021)
6. **Country representative for the Foreign Member Exchange Committee (FMEC)** under the Korea Water Resource Association (KWRA), Republic of Korea – 2019
7. **Supervised** final year student at Department of Agricultural Engineering, Faculty of Agriculture, University of Peradeniya, Sri Lanka (2013, 2022)
8. **“STICS” Crop Model Training course** – University of Peradeniya (13/05/2013 -16/05/2013)
9. **AgMIP Multiple Crop Model Training Program** – ICRISAT, India. (25/03/2013 – 29/03/2013)
10. **International training on Climate Prediction 2011** – APCC, Republic of South Korea (28/09/2011-09/12/2011)
11. **International training of South Asian Water (SAWA) fellows including field practices-** SachiWATERs India, Nepal Engineering Collage and SAGUN Nepal (2008 - 2 weeks).
12. Training workshop on **Effective Wastewater Management Systems- New Strategies** - Postgraduate institute of Agriculture, University of Peradeniya (2007- One day).

#### Recent Important Publications

1. Kim, H-J., **Chandrasekara, S.**, Kwon, H-H., Lima, C. and Kim, T-W. (2023). A novel multi-scale parameter estimation approach to the Hargreaves-Samani equation for estimation of Penman-Monteith reference evapotranspiration. *Agriculture Water Management*, 275: 108038, ISSN 0378-3774. <https://doi.org/10.1016/j.agwat.2022.108038>.
2. **Chandrasekara, S.S.K.**, Kwon, H-H., Vithanage, M., Obeysekera, J. and Kim, T-W. (2021). **Drought in South Asia: A review of drought assessment and prediction in South Asian Countries.** *Atmosphere*, 12(3): 369. <https://doi.org/10.3390/atmos12030369>
3. **Chandrasekara, S.S.K.**, Chandrasekara, S.K., Sarath Gamini, P.H., Obeysekera, J., Manthrithilake, H., Kwon, H-H., Vithanage, M. (2021). **A review on water governance in Sri Lanka: the lessons learnt for future water policy formulation.** *Water Policy*, 23:255-273. DOI. 10.2166/wp.2021.152
4. Naveendrakumar, G., Vithanage, M., Kwon, H.H., **Chandrasekara, S.S.K.**, Iqbal, M.C.M., Pathmarajah, S., Fernando, W.C.D.K. and Obeysekera, J. (2019). **South Asian perspective on temperature and rainfall extremes: A review.** *Atmospheric Research*. 225: 110-120.

5. **Chandrasekara, S.S.K., Prasanna, V. and Kwon, H.H. (2018). Teleconnection between cold ENSO phases and seasonal rainfall over Sri Lanka: Case study in Kotmale catchment.** ENGINEER, L(4): 27-34.
6. **Chandrasekara, S.S.K., Sumiya Uranchimeg, Hyun-Han Kwon and Seung Oh-Lee. (2018). Coastal flood disaster in Sri Lanka – May 2017. Exploring distributional changes in rainfall and their impacts on flood risk.** In: Shim, J.S., Chun, I. and Lim, H-S.(eds.). Proceedings from the International Coastal Symposium (ICS) 2018 (Busan, Republic of Korea). Journal of Coastal Research, Special Issue No: 85, Vol.2: 1476-1480. Coconut Creek (Florida), ISSN 0749-0208.
7. **Chandrasekara, S.S.K., Chandrasekara, S.K., Prasanna, V. and Kwon, H.H. (2018). Investigating the teleconnection between warm ENSO phases and seasonal rainfall over Kotmale catchment in Sri Lanka.** Engineer, LI(01):1-7.
8. **Chandrasekara, S.S.K., Sumiya Uranchimeg, Hyun-Han Kwon. (2017). Quantile regression analysis: A novel approach to determine distributional changes in rainfall over, Sri Lanka.** Proceedings of Korea Water Resources Association.pg. 228-232.  
<https://www.koreascience.or.kr/article/CFKO201736062689734.pdf>
9. **Sewwandhi Chandrasekara, Venkatraman Prasanna and Hyun-Han Kwon. (2017). Monitoring water resources over the Kotmale Reservoir in Sri Lanka using ENSO phases.** Advanced in Meteorology, Vol. 2017, Article ID 4025964, 9 pages, DOI:10.155/2017/4025964
10. Lareef Zubair, Sarath P. Nissanka, W. M. W. Weerakoon, Dumindu I. Herath, Asha S. Karunaratne, A. S. M. Prabodha, M. B. Agalawatte, Rasnayaka M. Herath, S. Zeenas Yahiya, B. V. R. Punyawardhene, Janan Vishwanathan, Punya Delpitiya, A. Erandika N. Wijekoon, Janaka Gunaratna, **Sewwandhi S. K. Chandrasekara**, P. Wickramagamage, K. D. N. Weerasinghe, Champa M. Navaratne, Ruchika S. Perera, Asela I. Gunesekara, G. M. Pradeep Kumara, Daniel Wallach, Roberto O. Valdivia, and Sonali McDermid (2015) **Climate Change Impacts on Rice Farming Systems in Northwestern Sri Lanka. Handbook of Climate Change and Agroecosystems.** ICP Series on Climate Change Impacts, Adaptation, and Mitigation: Volume 3. pp. 315-352. ISBN: 978-1-78326-563-3
11. **Chandrasekara, S.S.K. and Venkatraman, P. (2012). MJO and ENSO Interactions On Monsoonal Rainfall Over Sri Lanka.** Final Report. Young Scientist Support Program 2012. APEC Climate Center, South Korea. P 475-499.
12. **Chandrasekara, S.S.K. and Gunawardena, E.R.N. (2011). Effectiveness of existing laws and regulations to prevent encroachment of stream reservations.** Tropical Agricultural Research. Postgraduate Institute of Agriculture, University of Peradeniya. Sri Lanka 22 (2): 134- 143.