

**Luminda Hewawasam**  
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Department of Civil and Architectural Engineering  
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### **EDUCATION**

- **Ph.D.** Environmental Studies, Tohoku University, Japan, 2010.
- **M.Sc.** Environmental Management, Asian Institute of Technology, Thailand, 2006.
- **B.Sc.** Civil Engineering, University of Peradeniya, Sri Lanka, 2003.

### **ACADEMIC EXPERIENCE**

- Assistant Professor, Department of Civil Engineering, Sultan Qaboos University, Feb. 2013 – present, Full-time.
- Postdoctoral Research Fellow, Department of Civil Engineering, Tohoku University, Jun. 2010-Jan. 2013, Full time.
- Instructor, Department of Civil Engineering, University of Peradeniya, Jun. 2003-Jul. 2004, Full time.

### **NON-ACADEMIC EXPERIENCE**

- Engineering Service Department, Anuradhapura, Sri Lanka, Feb. 2000–May. 2000, Undergraduate trainee.
- National Water Supply & Drainage Board, Kandy, Sri Lanka, Oct. 2001-Dec. 2001, Undergraduate trainee.

### **CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

- The Institution of Engineers Sri Lanka (IESL).

### **HONORS AND AWARDS**

- 2-year Postdoctoral Fellowship, Japan Society for the Promotion of Science, Tohoku University, Apr. 2012.
- 2-year Postdoctoral Fellowship, Environment Research and Technology Development Fund (S-8) of the Ministry of the Environment, Japan, Jun. 2010.
- 3-year MONBUKAGAKUSHO Scholarship for Doctor Program at Tohoku University, Apr. 2007.
- 2-year NORAD scholarship for Master Program at Asian Institute of Technology, Aug. 2004.
- 4-year Mahapola Merit scholarship for undergraduate studies, Ministry of Higher Education, Sri Lanka, Apr. 1999.

### **SERVICE ACTIVITIES (Within and outside of the institution)**

#### ***Institutional Service***

- Committee member for the Civil Engineering Accreditations Committee.
- Committee member for the Undergraduate Curriculum Committee.
- Committee member for the Student Advising and Appeal Committee.
- Committee member for the Library at the University level.
- Committee member for the Seminars and Publicity in the CAE department.

### *Professional Service*

- Principle Investigator, “Trend between the renewal rate of the aquifer and the extreme climate events, funded by the Internal Research Grant, Sultan Qaboos University, 2016-2018, (IG/ENG/CAED/16/02).
- Consultant, “Oman National Climate Change Strategy”, funded by Ministry of Environment & Climatic Affairs (MECA), 2014-2016.
- Consultant, “Characterizing and Modeling of Groundwater Level Increase in Muscat Airport Area”, ongoing project.
- Associate Editor for the *Hydrological Research Letters* Journal.
- Reviewer for the Journal of Hydrology (JH), Elsevier; Water Resources Management (WRM) journal, Springer; Hydrogeology Journal, Springer.

### **PRINCIPLE PUBLICATIONS WITHIN LAST FIVE YEARS** (selected)

- **Gunawardhana, L.N., Al-Rawas, G.A., Ghadeer Al-Hadhrami. (2018).** Quantification of the changes in intensity and frequency of hourly extreme rainfall attributed to climate change in Oman. *Natural Hazards*, 92, pp. 1649-1664.
- **Gunawardhana, L.N., Al-Rawas, G.A., Kwarteng, A.Y., Al-Wardy, M., and Charabi, Y. (2018).** Potential changes in the number of wet days and its effect on future intense and annual precipitation in northern Oman. *Hydrology Research*, 49, pp. 237-250.
- **Gunawardhana, L.N., Al-Rawas, G.A., and Kazama S. (2017).** An alternative method for predicting relative humidity for climate change studies. *Meteorological Applications*, 24, pp. 551-559.
- **Gunawardhana L.N. and Kazama S. (2017).** The potential role of urban green areas for controlling ground surface and subsurface warming. *Urban Water*, 14, pp. 34-44.
- **Gunawardhana L.N. and Ghazi Al-Rawas (2016).** A comparison of trends in extreme rainfall using 20 years data in three major cities in Oman. *The Journal of Engineering Research*, 13, pp. 137-148.
- **Gunawardhana, L.N., Al-Rawas, G.A., Kazama, S. and Al-Najar, K.A. (2015).** Assessment of future variability in extreme precipitation and the potential effects on the wadi flow regime. *Environmental Monitoring and Assessment*, 187, pp. 1-19.
- **Gunawardhana, L.N., Kazama, S. and Al-Rawas, G.A. (2015).** Simulating thermal pollution caused by a hypothetical groundwater heat pump system under different climate, operation and hydrogeological conditions. *Geothermal Energy*, 3, pp. 1-15.

### **RECENT PROFESSIONAL DEVELOPMENT ACTIVITIES**

- Participated in the workshop “Introduction to CDIO Initiative” presented by Dr. Juha Kontio on May 17-19, 2016.
- Participated in the workshop “Preparing Engineers for a Globalized Economy: How to Teach Engineering Students Process Skills” presented by Professor N.J. Mourtos on May 26-28, 2015.