



Curriculum Vitae

Faculty Name: Ripendra Awal **Work Address:** P.O. Box 519; MS 2080
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Position Title: Professor

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Education:	Degree and Area of Study	Institution Name	Degree Date
	Ph.D. (Civil and Earth Resources Eng.)	Kyoto University, Japan	2008
	M.Sc. (Water Resources Eng.)	Tribhuvan University, Nepal	2003
	B.E. (Civil Engineering)	Tribhuvan University, Nepal	1997

Teaching Experience	Position Title	Institution Name	Position Dates
	Professor	Prairie View A&M University	2023 - Current
	Associate Professor	Prairie View A&M University	2020 - 2023
	Research Scientist	Prairie View A&M University	2013 - 2020
	Assistant Researcher	University of Hawai'i - Mānoa	2011 - 2013

Professional Publications:

- Melaku, N.D., Fares, A., and Awal, R.: Exploring the unprecedented impact of winter storm Uri on power outage, air quality, and water system in Texas, USA, *Sustainability* 2023, 15(5), 4173.
- Veettil, A., Fares, A., and Awal, R.: Winter Storm Uri and Temporary Drought Relief in the Western Climate Divisions of Texas, *Science of the Total Environment*, 19 April 2022, 155336.
- Cooper, C.M., Troutman, J.P., Awal, R., Habibi, H., and Fares, A.: Climate change-induced variations in blue and green water usage in U.S. urban agriculture, *Journal of Cleaner Production*, Volume 348, 10 May 2022, 131326 <https://doi.org/10.1016/j.jclepro.2022.131326>
- Awal, R., Elhassan, A., Abbas, F., Fares, A., Bayabil, H.K., Ray, R.L., and Woldesenbet, S.: Patterns of nutrient dynamics in the root zone of collard greens grown under different organic amendment types and rates, *Sustainability* 2021, 13, 6857
- Habibi, H., Awal, R., Fares, A., and Temimi, M.: Performance of Multi-Radar Multi-Sensor (MRMS) product in monitoring precipitation under extreme events in Harris County, Texas, *Journal of Hydrology*, 2021.
- Awal, R., Habibi, H., Fares, A., and Deb, S.: Estimating Reference Crop Evapotranspiration under Limited Climate Data in West Texas, *Journal of Hydrology: Regional Studies*, 2020, 28, 100677.
- Ray, R.L., Griffin, R.W., Fares, A., Elhassan, A., Awal, R., Woldesenbet, S., and Risch, E.: Soil CO₂ emissions from an experimental research farm: Effects of organic amendments, temperature, and rainfall, *Scientific Reports*, 2020, 10, 5849.
- Awal, R., Safeeq, M., Abbas, F., Fares, S., Deb, S.K., Ahmad, and A. Fares, A.: Soil Physical Properties Spatial Variability under Long-term No-Tillage Corn, *Agronomy* 2019, 9(11), 750; <https://doi.org/10.3390/agronomy9110750>.
- Awal, R., Fares, A., and Habibi, H.: Optimum Turf Grass Irrigation Requirements and Corresponding Water-Energy-CO₂ Nexus across Harris County, Texas, *Sustainability* 2019, 11(5), 1440; (<https://doi.org/10.3390/su11051440>).
- Kebrom, T.H., Woldesenbet, S., Bayabil, H.K., Garcia, M., Gao, M., Ampim, P., Awal, R., Fares, A.: Evaluation of phytotoxicity of three commercial organic amendments to collard greens using the seed germination bioassay, *Environmental Science & Pollution Research*, 2019, Vol. 26(6) 5454–5462 (<https://doi.org/10.1007/s11356-018-3928-4>).

- Awal, R., Fares, A., and Bayabil, H.: Assessing Potential Climate Change Impacts on Irrigation Requirements of Major Crops in the Brazos Headwaters Basin, Texas, *Water* 2018, 10(11), 1610.
- Fares, A., Bayabil, H., Zekri, M., Mattos-Jr, D. and Awal, R.: Potential Climate Change Impacts on Citrus Water Requirement across Major Producing Areas in the World, *Journal of Water and Climate Change*. Vol. 8(4) 576-592.
- Awal, R., Bayabil, H. and Fares, A.: Analysis of Potential Future Climate and Climate Extremes in the Brazos Headwaters Basin, Texas, *Water* 2016, 8(12), 603.
- Fares, A., Bensley, A., Bayabil, H., Awal, R., Fares, S., Valenzuela, H., and Abbas, F.: Carbon dioxide emission in relation with irrigation and organic amendments from a sweet corn field, *Journal of Environmental Science and Health, Part B*, 2016.
- Fares, A., Awal, R., Bayabil, H.: Soil Water Content Sensor Response to Organic Matter Content under Laboratory Conditions, *Sensors* 2016, 16(8), 1239.
- Fares, A., Awal, R., Fares, S., Johnson, A.B. and Valenzuela, H.: Irrigation Water Requirements for Seed Corn and Coffee under Potential Climate Change Scenarios, *Journal of Water and Climate Change*, Vol. 7(1), pp.39-51, 2016.
- Fares, A., Safeeq, M., Awal, R., Fares, S. and Dogan, A.: Temperature, and Probe-to-Probe Variability Effects on the Performance of Capacitance Soil Moisture Sensors in an Oxisol, *Vadose Zone Journal*, 2015.
- Fares, A., Awal, R., Michaud, J., Fares, S., Chu, P., Kodama, K., and Rosener, M.: Rainfall-runoff modeling in a flashy tropical watershed using the distributed HL-RDHM Model, *Journal of Hydrology*, Vol. 519: 3436-3447, 2014.
- Awal, R., Nakagawa, H., Kawaike, K., Baba, Y. and Zhang, H.: An integrated approach to predict outflow hydrograph due to landslide dam failure by overtopping and sliding, *Annual Journal of Hydraulic Engineering*, JSCE, Vol. 52, pp.151-156, February 2008.

Additional Trainings/Skills:

- Ruth J. Simmons Leadership Symposium*, November 23, 2019, PVAMU Northwest Center, Houston, TX.
- TACC (Texas Advanced Computing Center) Computational Science in the Cloud Institute 2017*, July 24 – 28, 2017, the University of Texas at Austin, Texas.
- Applications of Remote Sensing for Soil Moisture and Evapotranspiration*, Sept. 1 – 30, 2016, Applied Remote Sensing Training (ARSET), NASA (online).
- METRIC (Mapping EvapoTranspiration at high Resolution with Internalized Calibration) Evapotranspiration Workshop*, August 22-25, 2016, UC Davis, CA.
- TACC (Texas Advanced Computing Center) Summer Supercomputing Institute (Scientific Visualization and Data Analysis)*, August 1 – 5, 2016, the University of Texas at Austin, Texas.
- Commercial Drone Operator Training Course*, April 5-7, 2016, at Monarch Inc., Ridgecrest CA.
- “DSSAT 2016 International Training Program: Assessing Crop Production, Nutrient Management, Climatic Risk and Environmental Sustainability with Simulation Models”* – May 16 – 21, 2016 at Griffin, Georgia, USA.
- “IHP Nagoya Training Course in Asia and the Pacific Region” on “Water Resources and Water-Related Disasters under Climate Change –Prediction, Impact Assessment, and Adaptation-”* 29th November to 12th December 2009 at Kyoto University and other Institutes under the auspices of UNESCO Office, Jakarta.
- “GIS/Remote Sensing ERDAS Imagine Advancing Course - 18th January to 19th March 2005”* from Soyan Mega Soft (Authorized Distributor - Leica, ERDAS), Kathmandu.