



First Name: **Thushara** Last Name: **Gunda**

Title: **Senior Member of Technical Staff**

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Education:

PhD: **Environmental Engineering**

MS: **Environmental Engineering**

BS: **Environmental Science**

General Areas of Expertise:

Water Resources

Short Bio:

Thushara Gunda is part of the research staff at Sandia National Laboratories. She holds a PhD in Environmental Engineering from Vanderbilt University. A recipient of the NSF graduate research fellowship, Dr. Gunda's doctoral work used an interdisciplinary, data-drive approach to contribute to an increased understanding of policy tradeoffs associated with the water, energy, and food nexus in Sri Lanka. Her current research focuses on understanding natural and social drivers of water security in US states and evaluating the role of policy on efficient use of resources. Her research has been published in multiple journals including the International Journal of Climatology and Environmental Research Letters. She holds a B.Sc. and B.A. in Environmental Sciences and Environmental Thought & Practice respectively from University of Virginia.

Five Representative Publications:

Gunda, T., Bazuin, J.T., Nay, J., and Yeung, K.L. (2017) "Impact of seasonal forecast use on agricultural income in a system with varying crop costs and returns: an empirically-grounded simulation." *Environmental Research Letters*, 12(3):034001, DOI: 10.1088/1748-9326/aa5ef7.
Davis, K., Gephart, J., and Gunda, T. (2016) "Future environmental impacts of Sri Lanka's policy on self-sufficiency in rice." *AMBIO*, 45(3):302{312, DOI: 10.1007/s13280-015-0720-2.
Gunda, T., Hornberger, G.M., and Gilligan, J.M. (2016) "Spatiotemporal patterns of meteorological drought in Sri Lanka from 1880-2010." *International Journal of Climatology*, 36(2):563{575, DOI: 10.1002/joc.4365.
Gunda, T., Benneyworth, L., and Burchfield, E.K. (2015) "Exploring water indices and associated parameters: a case study approach." *Water Policy*, 17(1):98{111, DOI: 10.2166/wp.2014.022.
Gunda, T. and Scanlon, T. (2013) "Topographical and hydrological influences on the spatial distribution of mercury at the catchment scale." *Water, Air, and Soil Pollution*, 224(4):1511, DOI: 10.1007/s11270-013-1511-7.

FEWSTERN Symposium 2017 Presentation Title and Abstract:

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