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 Title: **Associate Research Scientist**
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Education:

PhD: **Science and Information Technology** MS: BS: **BE (civil structural/civil environmental)**

General Areas of Expertise:

Hydroclimatic variability and water resource risk analysis using paleoclimate information and drivers of large-scale climate variability.

Short Bio:

Michelle Ho is interested in improving knowledge and understanding of climate impacts on water resources and subsequent economic activity at both regional and global scales to enable improved resilience and preparation for extreme events such as storms and flooding or persistent droughts. Her specific research interests include the use of paleoclimate information to inform current and future water resource risks; balancing water supply and demand to assess regional water stress and its impacts on different water resources; sectorial competition for water; aging water infrastructure and risks to communities and economic activity; assessments of extreme events on emergency response preparation, food production, oil and gas extraction, and subsequent impacts on regional and international trades in food, energy and water.

Five Representative Publications:

Ho, M., U. Lall, M. Allaire, N. Devineni, H. H. Kwon, I. Pal, D. Raff, and D. Wegner (2017), The future role of dams in the United States of America, *Water Resour. Res.*, 53, 982–998, doi:10.1002/2016WR019905.
 Ho, M., U. Lall, X. Sun, and E. R. Cook (2017), Multiscale temporal variability and regional patterns in 555 years of conterminous U.S. streamflow, *Water Resour. Res.*, 53, 3047–3066, doi:10.1002/2016WR019632.
 Ho, M., V. Parthasarathy, E. Etienne, T. A. Russo, N. Devineni, and U. Lall (2016), America's water: Agricultural water demands and the response of groundwater, *Geophys. Res. Lett.*, 43, 7546–7555, doi:10.1002/2016GL069797.
 Lall, U., Rising, J., Ho, M., W., Jossel, L., Allaire, M., Troy, T., Devineni, N.; Ruddell, B. L.; Pal, I., (2016). A Road Map for America's Water for the Next 20 Years. American Geophysical Union, Fall General Assembly 2016
 Ho, M., U. Lall, X. Sun, and E. R. Cook (2017), A national perspective on paleoclimate streamflow and water storage infrastructure in the conterminous United States, EGU General Assembly Conference Abstracts.

FEWSTERN Symposium 2017 Presentation Title and Abstract: