LUMS | Centre for Water Informatics & Technology

# Models, Learning and Sensing in Hydrology

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## Data Assimilation of the Terrestrial Water Cycle: Applications

**Monday, April 18, 2022 | 8 – 9 pm PKT**


**Dr. Manuela Girotto**

Assistant Professor, Department of Environmental Science, Policy, and Management, University of California, Berkeley



**Abstract:** The goal of Data assimilation is to provide a better estimate of the environmental states than either models or observations could individually do. This presentation will focus on benefits, challenges and applications of recent land surface data assimilation research efforts targeted at improving snow, soil moisture, groundwater, and terrestrial water storage hydrological states.


**Moderated by Dr. Jawairia Ashfaq Ahmad, Centre for Water Informatics & Technology (LUMS)**

**Speaker Biography:** I am an Assistant Professor in the department of Environmental Science and Policy Management at UC Berkeley. My research merges cutting-edge space technology and remotely-sensed observations of the earth with state-of-the-art models for the purpose of improving our scientific knowledge about variability and change in hydrologic cycles. My research focuses on snow, soil moisture, and groundwater hydrology. After earning my PhD in civil and environmental engineering at the University of California, Los Angeles, I have worked as a research scientist in the earth science division of the NASA Goddard Space Flight Center in Greenbelt, MD.

**The webinar can be attended via Zoom. In order to attend, the participants must register at the following link:**
**https://wit.lums.edu.pk/MLSH2022**
**Instructions to log into the webinar will be sent via email.**

**For more details and queries, contact Soban Hameed Saigol at soban.hameed@lums.edu.pk 0332 4495057**