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Anticipating 21st-Century Snowmelt Extremes

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1-2 PM (MT) FL2-1001 or Virtual | [Watch Live](#)

Abrupt snowmelt, whether through rain-on-snow or snow-eater heatwaves, can increase the risk of midwinter and spring flooding, accelerate the onset of snow drought during late spring and early summer, and alter water availability later in the year. My research aims to understand the drivers of extreme snowmelt events, largely through the use of physics-based modeling, to help water managers and flood planners proactively, rather than reactively, respond to their changing characteristics in a warmer world.

In this talk, I will showcase recent research that utilizes both cutting-edge modeling approaches (e.g., regionally refined Earth system models) and operational forecasting modeling approaches (e.g., National Weather Service SNOW-17 model) to identify how snowmelt-driven flood events have and continue to respond to warming. [Event Website](#)