Classification of a stream as perennial (flowing year-round) or non-perennial (periodically going dry) has important regulatory implications with generally stronger protections for perennial streams. However, classification of perennial/non-perennial streams is surprisingly inaccurate, particularly for small headwater streams. U.S. Geological Survey models trained on existing and newly collected, crowd-sourced flow/no flow observations provide updates of perennial/non-perennial classification for large multi-state geographical extents. Importantly, these simple visual observations are dramatically more spatially extensive and substantially less costly than conventional streamflow data. My current research focus includes broadening flow permanence research to the Pacific Northwest region and evaluating changes in sediment and stream water temperature regimes and associated implications on river ecosystem health in Pacific Northwest mountain rivers.

Seminar will be recorded and uploaded to the SAFS Youtube at www.youtube.com/@UWSAFS

Disability Accommodations: Contact the Disability Services Office at 206-543-6450 (voice), 206-543-6452 (TTY), 206-685-7264 (fax) or dso@uw.edu for accommodation requests.