

William Rudisill, Ph.D

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Education

- Boise State University (Ph.D Geophysics) 2022
- Boise State University (M.S Hydrological Sciences) 2018
- University of North Carolina at Chapel Hill (B.S Geology) 2015

Work Experience

- Postdoctoral Research Fellow, Lawrence Berkeley National Laboratory Climate and Ecosystem Sciences Division, 2022–present
- Research Scientist, ATA Aerospace, 2022
- Graduate Research Assistant, Boise State University Department of Geosciences, 2016–2022
- Whitewater Kayak Instructor, Cascade Raft and Kayak, 2015-2018
- Whitewater Kayak Instructor, US National Whitewater Center, 2010-2014

Professional Activities

- Member of the American Geophysical Union
- Manuscript Reviewer for the Journal of Hydrometeorology, Earth Interactions, Journal of Applied Climatology, JGR: Atmospheres, Springer Nature
- NASA Terrestrial Hydrology Program Reviewer
- Editor of the Mountain Views Chronicle (2024)

Grants and Awards

- CO-PI on DOE ASR Program Award (\$2M+), 2024
- DOE EESA Early Career Development Grant (\$30k), 2023
- DOE SCGSR Graduate Research Fellowship, 2022

Teaching and Mentorship

- Mentor: (2x) LBNL SULI Internship program, 2024
- Teaching Assistant: Hydrologic Modeling and Remote Sensing (BSU; 2022)

Technical Skills

- Python (pandas, xarray, dask)
- Geospatial analysis (gdal, geopandas, rasterio)
- HPC systems

Publications

- [1] Alan M. Rhoades et al. “Anticipating how rain-on-snow events will change through the 21st century: lessons from the 1997 new year’s flood event”. *Clim. Dyn.* (2024), pp. 1–23. DOI: 10.1007/s00382-024-07351-7.
- [2] William Rudisill et al. “Are atmospheric models too cold in the mountains? The state of science and insights from the SAIL field campaign”. *Bull. Am. Meteorol. Soc.* -1.aop (2024). DOI: 10.1175/BAMS-D-23-0082.1.
- [3] D. R. Feldman et al. “The Surface Atmosphere Integrated Field Laboratory (SAIL) campaign”. *Bull. Am. Meteorol. Soc.* -1.aop (2023). DOI: 10.1175/bams-d-22-0049.1.
- [4] William Rudisill, Alejandro Flores, and Rosemary Carroll. “Evaluating 3 decades of precipitation in the Upper Colorado River basin from a high-resolution regional climate model”. *Geosci. Model Dev.* 16.22 (2023), pp. 6531–6552. DOI: 10.5194/gmd-16-6531-2023.
- [5] William Rudisill et al. “Cold-Season Precipitation Sensitivity to Microphysical Parameterizations: Hydrologic Evaluations Leveraging Snow Lidar Datasets”. *J. Hydrometeorol.* 1.aop (2023). DOI: 10.1175/JHM-D-22-0217.1.
- [6] William Rudisill, Kendra Kaiser, and Alejandro Flores. “Evaluating long-term One-Way Atmosphere-Hydrology simulations and the impacts of Two-Way coupling in four mountain watersheds”. *Hydrol. Process.* 36.5 (2022). DOI: 10.1002/hyp.14578.
- [7] William Rudisill, Alejandro Flores, and James McNamara. “The Impact of Initial Snow Conditions on the Numerical Weather Simulation of a Northern Rockies Atmospheric River”. *J. Hydrometeorol.* 22.1 (2021), pp. 155–167. DOI: 10.1175/JHM-D-20-0018.1.