



# Casey Langstroth

she/her

**Post-Wildfire Debris Flow Geoscientist**

Casey is a member of the Post-Wildfire Debris Flow Program where she maps alluvial fans and debris flows across Washington State. Casey also provides assistance in maintaining post-wildfire field monitoring equipment and running post-wildfire debris flow hazard models in recently burned forests. Prior to joining the survey, she completed her M.S. at Utah State University, Logan, mapping post-wildfire debris flow deposits over time and quantifying their magnitude of erosion in different hydrologic regimes.

## **Job Responsibilities**

Mapping alluvial fans and debris flows using a combination of high-resolution Lidar and orthoimagery, field verification of mapped landforms, support and assist WALERT teams during wildfire season, technical report writing.

## **Professional Interests**

Sediment transport, hazard modeling, fluvial geomorphology, remote-sensing, change detection, early-warning systems

## **Skills**

ArcGIS, QGIS, Python, R, lidar change detection, remote sensing, Microsoft Office, hazard and hydraulic modeling, technical writing

## **Professional Experience**

- Graduate Research and Teaching Assistant at Utah State University, Logan, UT
- Hydrologic Technician at the Grand Canyon Research and Monitoring Center, USGS, Flagstaff, AZ

## **Education**

- M.S. Watershed Sciences, Utah State University, Logan, UT
- B.S. Environmental Sciences, Northern Arizona University, Flagstaff, AZ
- B.S. Geology, Northern Arizona University, Flagstaff, AZ

## **Personal Interests**

Rock climbing, snowboarding, running, photography, dogs

