



# Tristan Amaral

## Lead Alluvial Fan Mapper

Tristan works with the post-wildfire debris flow program where he assists with alluvial fan mapping and landslide hazard assessment efforts across Washington state. Prior to joining WGS, Tristan worked with the Alaska Volcano Observatory helping monitor landslides in Alaska.

### Job Responsibilities

Mapping alluvial fans and debris flows from lidar, conducting post-fire debris flow hazard assessments, assisting in field monitoring activities.

### Professional Interests

Landslide hazard mapping, landslide monitoring, glacier dynamics, snow hydrology

### Skills

ArcGIS, Python, R, Campbell Scientific, field monitoring.

### Professional Experience

- Physical Science Technician, US Geological Survey, Anchorage, Alaska
- GIS Specialist, US Fish and Wildlife Service, Anchorage, Alaska
- Hydrologist, NRCS Snow Survey Program, Denver, Colorado
- GIS Assistant, Denali National Park, Denali, Alaska

### Education

- M.S. Geology, University of Idaho, Moscow, Idaho
- B.S. Earth Sciences, University of New Hampshire, Durham, New Hampshire

### Personal Interests

XC skiing, running, hiking, gardening, rock climbing, camping, berry picking