



Photo next to a fault exposure in a paleoseismic trench.

Ashley Streig, Ph.D.

Earthquake Hazards and Geophysics Program Manager

Ashley oversees the Earthquake Hazards and Geophysics Program at the Survey. The Earthquake Hazards and Geophysics group uses geophysical tools and backgrounds in structural geology and tectonics to research faults, folds, basin structures, and site conditions for geologic mapping, subsurface characterization, and hazard evaluation. The team supports programs like STATEMAP and Earth MRI, and other subsurface and structural research across DNR. Dr. Streig's research focuses on answering questions about active faults and folds, earthquakes and associated hazards, and earthquake frequency and magnitude. She is a CRESCENT Community Fault Model working group lead and member.

Job Responsibilities

Program management, earthquake hazard research and seismic hazard product development, coordination with seismic hazard partners, earthquake planning and response, public outreach. Coordinates with WGS programs on mapping and geophysical approaches for structural research.

Professional Interests

Active tectonics, paleoseismology, tectonic geomorphology, and structural geology. Study of active faults and folds, earthquakes, and associated hazards. Earthquake timing and recurrence, slip rate studies, fault behavior and rupture characteristics, fault reactivation, and earthquake triggering. Field reconnaissance and mapping after large magnitude surface-rupturing earthquakes.

Skills

Quaternary mapping, lidar-based mapping and analysis, structural geology, application of Quaternary age dating methods, dendrochronologic dating techniques, science communication.

Professional Experience

- Geologist, Washington Geological Survey, Olympia, WA
- Associate Professor, Department of Geology, PSU, 2015-2026.
- Erskine Fellow, School of Earth and Environment, University of Canterbury, New Zealand, 2023
- NSF Earth Sciences CAREER award grant, Portland State University, OR
- NSF Earth Sciences Postdoctoral Fellow, Oregon State University, OR
- Project Geologist, William Lettis & Associates, Inc., CA

Education

- Ph.D. Geology, University of Oregon, Eugene, OR
- M.S. Geology, Central Washington University, Ellensburg, WA
- B.A. Geology, Occidental College, Eagle Rock, CA

Personal Interests

Swimming, kayaking, hiking, biking, camping, gardening, canning, and making things with sourdough.