

Introduction

The Geomorphology and Earth Surface Processes Group at Utah State University is devoted to studying geomorphic processes—the geologic, hydrologic, and pedologic systems—that shape the earth's surface, and which have operated over the recent geologic past. Research in these cross-disciplinary topics facilitates a scientific understanding of the natural environment, while it improves our ability to predict future environmental change and propose effective strategies for natural resources management.

Faculty with active research in geomorphology are located in several departments across campus. Together these faculty offer interdisciplinary training that fosters broad exposure to geomorphology and related sciences. Graduate students obtain their degrees through the departments of their major professors. Faculty and students are engaged in a broad range of research projects involving field, laboratory, and theoretical studies.

Come find your place with us.



Faculty

Nicholas Allmendinger *Watershed Sciences, Uintah Basin Campus*
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Ecogeomorphology and Topographic Analysis Lab (ET-AL)

- The mission of the ET-AL is to illuminate ecogeomorphic feedbacks and dynamics through state-of-the art monitoring and modeling analyses.
- The Lab is equipped to conduct ground-based LiDaR, total station, GPS, and blimp photography surveys and has ample computing resources.

Website: <http://www.joewheaton.org/lab>

Intermountain Center for River Rehabilitation and Restoration (ICRRR)

- The mission of ICRRR is to advance the science and practice of river restoration and environmental management, promote scientific management, rehabilitation and restorations, and to transfer that knowledge to the public and private sectors.
- The Principles and Practices of Stream Restoration and Geomorphology and Sediment Transport in Channel Design short courses are conducted annually.

Website: <https://www.cnr.usu.edu/icrrr>

USU Luminescence Lab (OSL dating)

- The mission of the Luminescence Lab is to provide OSL dating services to USU colleagues and students and outside collaborators. Student involvement in sample processing and analysis is encouraged.
- The Lab is equipped with two Risø OSL/TL readers for sample analysis and specializes in geomorphic, paleoseismic and archaeological applications of OSL dating in the inter-mountain west

Website: <http://www.usu.edu/geo/luminlab/>

Remote Sensing/Geographic Information Systems Lab (RS/GIS)

- The mission of RS/GIS is to integrate state-of-the-art remote sensing (RS), geographic information system (GIS), and global positioning (GPS) technologies with on-the-ground knowledge of ecosystems and natural resource management to address relevant environmental issues and transfer that knowledge through the use of web-enabled tools
- Conduct scientific research focusing on agricultural efficiency, carbon management, ecological forecasting, invasive species and water management.

Website: <http://www.gis.usu.edu/>

USU Water Initiative (WI)

- The WI provides an overarching umbrella for the activities of students and faculty engaged in water research at USU. The initiative was created to foster interdisciplinary collaboration and collegial sharing of ideas related to water across the departments and colleges of USU.
- The Spring Runoff Conference is held annually, providing a forum for students, faculty and the regional water community to share current research in an on-campus venue.

Website: <http://wetwater.usu.edu/>

Utah Water Research Laboratory (UWRL)

- The UWRL operates within an academic environment and collaborates with government and private sectors to address technical and societal aspects of water-related issues, including quality, quantity, distribution, and conjunctive use.
- Conducting research that is directed at solving multimedia water-related problems that are state, national, and international in scope and importance.

Website: <http://uwrl.usu.edu/>