



Alex Headman

Lidar Data Manager

Alex is a data manager with the lidar group. He has over a decade of experience in GIS and has been professionally and non-professionally writing software for as long as he can remember. Prior to joining the Washington Geological Survey, he worked with geospatial aspects for all sorts of environmental applications from archaeology to volcanology.

Job Responsibilities

Lidar data management, stewardship, and distribution, database administration, back-end development, cloud and system architecture.

Professional Interests

Lidar, bathymetric mapping, hydrography, remote sensing and imagery applications, geohazards, and science communication.

Skills

Python, R, Fortran, JavaScript, SQL/NoSQL, ArcGIS, QGIS, AWS and cloud management, geostatistics, spatial analysis, machine learning.

Professional Experience

- Senior Developer and SysAdmin, U.S. Geological Survey, Web Informatics and Mapping Group
- Geographer (Data Science), U.S. Geological Survey, Washington Water Science Center
- GIS Specialist (Wildland Fire), West Desert District, Bureau of Land Management

Education

- M.S. Geography, University of Utah, Salt Lake City, UT, USA
- B.A. History, University of Utah, Salt Lake City, UT, USA

Personal Interests

Hiking, backpacking, biking, board games, photography, unintentionally collecting old cameras, cats.



Surveying ablation stakes and setting up ground control on South Cascade Glacier, WA.