
MADISON LANGSETH

Denver Federal Center, Building 810, Mail Stop 302, Denver, CO 80225, USA

EMPLOYMENT EXPERIENCE

Science Data Manager, United States Geological Survey, *September 2014 to Present*

- Assist data providers in officially releasing their data through ScienceBase, a trusted digital repository at the USGS.
- Manage software tools such as the USGS Digital Object Identifier Tool and the ScienceBase Data Release Tool that support researchers in publishing their data and software products.
- Conduct research on the use of data management plans and data citations within the USGS.
- Maintain the USGS Data Management Website, including conducting site audits, updating content, and responding to inquiries.
- Conduct usability studies to improve user experience with the ScienceBase platform.
- Develop and present training materials for USGS scientists and data managers to learn about science data management.
- Coordinate monthly meetings, requests for proposals, and biennial workshops for the USGS Community for Data Integration, an aggregation of multiple communities of practice focused on the advancement of scientific data management and integration.

Secondary Education Volunteer, United States Peace Corps – Sierra Leone, West Africa, *June 2011 to July 2013*

- Taught chemistry, physics, mathematics, and library studies at Ahmadiyya Nusrat Jahan Secondary School.
- Taught computer literacy classes to teachers of senior secondary schools in Masingbi.
- Organized, procured books for, and encouraged student and teacher use of a school library.

Biologist, WLA Consulting Inc. – Omaha, NE, *November 2008 to April 2011*

- Coordinated GIS mapping activities.
- Designed and performed soil, groundwater, and wastewater sampling.
- Prepared monthly, quarterly, and annual air emission inventories.
- Prepared Environmental Management Systems for manufacturing facilities.
- Organized a soil remediation project for a bronze foundry and machine shop.
- Developed a Quality Management System for WLA.

EDUCATION

Master of Science, Information Science, 2015
University of Tennessee, Knoxville
School of Information Sciences
GPA: 4.0
Honors: Gary R. Purcell Award

Bachelor of Arts, Biology, 2008
Grinnell College - Grinnell, IA
GPA: 3.77/4.00
Honors: Phi Beta Kappa

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RESEARCH EXPERIENCE

I extensively leverage communities of practice to perform research that informs the implementation of best practices, policies, and workflows related to data management and data publication. I created the USGS ScienceBase Data Release Network, which includes USGS data managers and researchers to inform our data publication workflows, tools, and landing pages for the USGS Trusted Digital Repository, ScienceBase. I also leverage the USGS Data Management Working Group (DMWG), which I co-lead, to inform the informational architecture of and best practices documented on the USGS Data Management Website. I am currently performing research, with the assistance of the DMWG to assess the use and utility of data management plans at the USGS. Finally, I have been working with the Earth Science Information Partners' (ESIP) Research Artifact Citation Cluster to understand how the Earth science community uses citations, persistent identifiers, and role taxonomies to assign credit to data products.

PUBLICATIONS

- Parsons, M., Katz, D., Langseth, M., Ramapriyan, H., & Ramdeen, S., 2022, Credit Where Credit Is Due: Eos, Vol. 103, <https://doi.org/10.1029/2022eo220239>.
- Hutchison, V.B., Norkin, T., Langseth, M.L., Ignizio, D.A., Zolly, L.S., McClees-Funinan, R., & Liford, A., 2021, Leveraging Existing Technology: Developing a Trusted Digital Repository for the U.S. Geological Survey: International Journal of Digital Curation, Vol. 16, Issue 1, p. 23, <https://doi.org/10.2218/ijdc.v16i1.741>.
- Rosemartin, A.H., Langseth, M.L., Crimmins, T.M., & Weltzin, J.F., 2018, Development and release of phenological data products—A case study in compliance with federal open data policy: U.S. Geological Survey Open-File Report, <https://doi.org/10.3133/ofr20181007>.
- Tenopir, C., Allard, S., Frame, M., Baird, L., Birch, B., Sandusky, R., Langseth, M.L., Hughes, D., and Lundeen, A., 2015, Research data services in academic libraries: Data intensive roles for the future?" Journal of eScience Librarianship 4(2): e1085. <http://dx.doi.org/10.7191/jeslib.2015.1085>.

DATA PRODUCTS

- Hsu, L., Hutchison, V.B., & Langseth, M.L., 2019, Data on the Deliverables, Sustainability, and Collaboration of Community for Data Integration Projects from 2010-2016: U.S. Geological Survey data release, <https://doi.org/10.5066/P9V3XDY6>.
- Tenopir, C., Hughes, D., Allard, S., Frame, M., Birch, B., Baird, L., Sandusky, R., Langseth, M., Lundeen, A., 2016, Academic Libraries Follow-Up dataset, Dataset, <https://doi.org/10.15146/R39G6F>
- Wieder, W.R., Boehnert, J., Bonan, G.B., and Langseth, M., 2014, RegridDED Harmonized World Soil Database v1.2: ORNL DAAC, <http://dx.doi.org/10.3334/ORNLDAAC/1247>.