

SARA E. JENKINS

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Vancouver, BC, Canada

EDUCATION

Northern Arizona University Flagstaff, AZ • M.S. with Distinction, Quaternary Sciences Program **2007**
University of Delaware Newark, DE • B.S. Geology **2001**

SELECTED GEOSCIENCE & SPATIAL ANALYTICAL EXPERIENCE

GIS Specialist, Mineral Deposit Research Unit, EOAS, UBC, Vancouver, CAN **2012-current**

I currently provide support to researchers and students through GIS and cartographic operations relevant to mineral exploration research throughout Canada and worldwide. Specific tasks include:

- (1) GIS analysis and cartographic production, including spatial data QA/QC and workflow consultation, creation and dissemination of spatial data products supporting mineral exploration in the Balkans, Caucasus region, South America, British Columbia and Alaska, GIS training and technical troubleshooting for students and researchers, and map and figure preparation for publication and project communications;
- (2) GIS training both internally and with international project collaborators, including an ongoing consultancy with the Colombian Geological Survey on data management and thematic map production;
- (3) student employee management and coordination for database, physical archive, administrative, and GIS tasks in support of departmental and project-specific tasks;
- (4) science communication support through design and preparation of printed materials for conferences and public events, photography for internal and public relations materials; and GIS training.

Geomorphology Consultant, Barrick Gold, NV, USA **2011-current**

Geomorphic mapping conducted at various Barrick Gold properties throughout northeastern Nevada in support of site evaluation for geochemical sampling design and analysis.

GIS Contractor, Mineral Deposit Research Unit, EOS, UBC, Vancouver, CAN
2011-2012

Produced maps and performed data management tasks under the direction of MDRU program leaders for application to mineral exploration and geological analysis throughout Yukon and British Columbia, as well as selected ore-producing regions of South America.

GIS Trainer, DRI Partnership with World Vision Savelugu Training Center, Tamale, Ghana **2011**

Trained participants from national rural water programs in Ghana, Mali and Niger on the applications and utility of GIS in spatial representation of water quality information. Also guided class in the production of maps and other GIS-based products for reports; week-long annual training course.

Staff Geomorphologist, Desert Research Institute (DRI), Reno, NV **2007 – 2011**

Applied soil-landform relationships to research involving terrain hazard predictions and hydrological response at the watershed scale in ArcGIS for Department of Defense and county-funded projects. Conducted terrestrial-based LiDAR scanning (Leica) and analysis of desert surfaces for micro- and macro-scale topographic characterization, and developed new Defense-oriented analysis routines. Administrative Program Assistant for Dr. E.V. McDonald's U.S. DOD-funded Terrain Analysis Program.

Graduate Research Assistant, Northern Arizona University, Flagstaff, AZ **2003 – 2007**

Completed MSc thesis and associated research. Thesis title: “Fire-related Deposition at Kendrick Mountain, Arizona: Characterization and Implications for Fire History Reconstructions.”

Teaching Assistant Center for Environmental Sciences and Education, NAU, Flagstaff, AZ

Environmental Science 101: Introductory Environmental Sciences

2003 - 2007

Lab Instructor: Geologic Disasters, Atmosphere/Hydrosphere, Intro. Environmental Sciences

Geologist Arizona Geological Survey, Tucson, AZ

2007

Assisted with hazards analysis for FEMA-funded project, both field survey and GIS components.

HUMANITARIAN-FOCUSED VOLUNTEER EXPERIENCE

I value the opportunity to support humanitarian aid efforts remotely through crisis mapping tasks, imagery analysis with crowd-sourced tools, and operational data collection. I'm currently supporting the following humanitarian volunteer communities online:

- Standby Task Force, <http://www.standbytaskforce.org/>
- Humanitarian Open-Street Map Team, <https://hotosm.org/>

PEER-REVIEWED PUBLICATIONS

Jenkins, S.E., Sieg, C.H., Anderson, D.E., Kaufman, D., Pearthree, P. 2011. Late Holocene geomorphic record of fire in ponderosa pine and mixed conifer forests, Kendrick Mountain, northern Arizona, USA. *International Journal of Wildland Fire* **20**, 125–141

INTERNALLY-REVIEWED PUBLICATIONS & MAPS

F.A. Blaine, C.J.R. Hart and S. Jenkins, 2016, Surficial Geochemical Exploration Data for British Columbia Porphyry Copper Deposits: Geoscience BC Report 2016-15. Available at: <http://www.geosciencebc.com/s/Report2016-15.asp>

Allan, M.M., Jenkins, S.E., Hart, C.J.R., Mortensen, J.K., and M. Rahimi (compilers), 2016, Geology and mineral occurrences of eastern and interior Alaska (Preliminary): Mineral Deposit Research Unit, The University of British Columbia, MDRU Yukon-Alaska Metallogeny Project, MDRU Map M-11, scale 1:400,000

Allan, M.M., Jenkins, S.E., Hart, C.J.R., Mortensen, J.K., and Rahimi, M. (compilers), 2015, Geology and mineral occurrences of eastern and interior Alaska (Preliminary): Mineral Deposit Research Unit, The University of British Columbia, MDRU Yukon Gold Project, MDRU Map M-7, scale 1:500,000.

Allan, M.M., Mortensen, J.K., Sanchez, M.G., Hart, C.J.R., Bailey, L.A., McKenzie, G.G., Ciolkiewics, W., Wrighton, T.M., Chapman, R.J., Creaser, R.A., and Jenkins, S.E., 2014, Metallogeny of western Yukon and eastern Alaska: Mineral Deposit Research Unit, The University of British Columbia, MDRU Yukon Gold Project, MDRU Map M-4, scale 1:400,000.

Sanchez, M.G., Core, D., Buckingham, A., Allan, M.M., and Jenkins, S.E., 2014, Structural interpretation of geophysical datasets in western Yukon and eastern Alaska: Mineral Deposit Research Unit, The University of British Columbia, MDRU Yukon Gold Project, MDRU Map M-3, scale 1:400,000.

Allan, M.M. and Jenkins, S.E. (compilers), 2014, Geology and mineral occurrences of western Yukon and eastern Alaska: Mineral Deposit Research Unit, The University of British Columbia, MDRU Yukon Gold Project, MDRU Map M-2, scale 1:400,000.

McDonald, E., Caldwell, T., Mihevc, T., Baker, S., Bacon, S., Jenkins, S., Sabol, D., and Schumer, R., 2013, Global Military Operating Environments (GMOE) Phase I: Linking Natural Environments, International Security, and Military Operations: Desert Research Institute, Nevada System of Higher Education, 54 p.

CONFERENCE ABSTRACTS

Pierce, J., Meyer, G.A., Bigio, E., Nelson, N., Poulos, M., Jenkins, S., Weppner, K.N., Riley, K., Fitch, E., and Frechette, J., 2015, A synthesis of Alluvial records of wildfire in the western USA: A complex interplay of climate and vegetation. *GSA Annual Meeting, Baltimore, MD, USA, November 1-4, 2015, Session T54, Geomorphology and Hydrology of Wildland Fires, Paper No. 331-6.*

Miller, J.J., Shafer, D.S., Meyer, W.J., Forsee, W.J., Jenkins, S. 2011. Modeling transport of high density metal contaminants in ephemeral flow systems. *9th International Conferences on Military Geosciences, Las Vegas, NV, June 20-24 (J. Miller, presenter)*

McDonald, E., Bacon S., Schumer, R., Jenkins, S., Caldwell, T. 2011. The question of the origin of cleared circles as cultural resource features: weary humans or energetic rodents? *9th International Conferences on Military Geosciences, Las Vegas, NV, June 20-24 (E. McDonald, presenter)*

Jenkins, S.E., Sieg, C.H., Anderson, D.E., Pearthree, P.A. 2007. Using debris flow analyses to quantify long-term fire regimes of northern Arizona ponderosa pine and mixed conifer forests in steep terrain. *Geomorphology Session, Geological Society of America Annual Meeting, Denver, CO, October 28-31*

Jenkins, S.E. 2006. Fire-Climate Relationships on the Colorado Plateau: A Holocene Fire-Related Debris Flow Chronology for Kendrick Mountain, Arizona. *AEG Shlemon Specialty Conference: Mass Wasting in Disturbed Watersheds, Tucson, AZ, May 3-5*

AWARDS

Integra Gold Rush Challenge, Top 5 Team Finalist (with MDRU Director Craig J.R. Hart)
March 2016; team awarded \$50,000 finalist prize and \$10,000 Audience Choice Award

RELEVANT SOFTWARE & TECHNICAL PROFICIENCY

ESRI ArcGIS™

Saga GIS

Leapfrog® 3D

Leica Geosystems HDS Cyclone (LiDAR analysis)

Adobe® Creative Suite (Illustrator, Photoshop, etc.)

Microsoft Office Suite

Grapher™ (Golden Software)

Sigmaplot® (Systat Systems, Inc.)

PERSONAL INFORMATION

- US Citizen with Permanent Resident status and 10+ years of work experience (6 in Canada)
- Documentary-style photographer for both personal and commercial ventures
- Fluent in English, with moderate French and limited Spanish