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### **Curriculum Vitae**

#### **EDUCATION**

University of Nevada Reno, NV, Ph.D. 2009  
Humboldt State University, Humboldt, CA: *M.S.*, Environmental Systems (Geology), 1997  
University of California, Santa Cruz, CA: *B.A.*, Earth Science, 1992

#### **PROFESSIONAL EXPERIENCE**

Director of the Center for Neotectonic Studies, 2025-date  
University of Nevada, Reno, Mackay School of Earth Sciences and Engineering, and Nevada Bureau of Mines and Geology, Assistant Professor, 2015-2020, Associate Professor, 2020-2025, Professor, 2025-date  
Associate Director, Nevada Bureau of Mines and Geology, 2025-date  
State of Alaska, Dept. of Geological and Geophysical Surveys, Earthquake Geologist 2009-2015  
Center for Neotectonic Studies, University of Nevada, Reno, Research Assistant, 2004-2009  
William Lettis & Associates, Inc., Walnut Creek, CA, Project Geologist, 1999-2004  
US Geological Survey, project paleoseismologist, 10 trenches, Puget Sound, Wa, 1998-2003

#### **AFFILIATIONS AND REGISTRATION**

California Professional Geologist, # 7615  
Geological Society of America  
American Geophysical Union  
Seismological Society of America

#### **SYNERGISTIC ACTIVITIES**

2024-date      Committee member, Nevada Hazard Mitigation Working Group, Nevada Department of  
Emergency Management (NDEM).  
2021-date      Associate member, American Association of State Geologists (AASG)  
2013-2020      Western States Seismic Policy Council (WSSPC), Chair, Basin and Range committee  
2010-date      Member, Geotechnical Extreme Events Reconnaissance (GEER)  
2010-2015      Alaska Seismic Hazards Safety Commission, member and vice-chair  
2016-date      Member, Basin and Range Province Earthquake Working Group (BRPEWG)  
2015-date      Member, Geotechnical Extreme Events Reconnaissance (GEER)

#### **RECENT POST EARTHQUAKE INVESTIGATIONS**

2026      M5.7 Silver Springs earthquake, Nevada. Participation in reconnaissance mapping with NSL.  
2024      M5.8 Parker Butte earthquake, Nevada. NBMG field coordinator, collaboration with NSL.  
2023      M7.8 and M7.5 Kahramanmaras earthquake sequence, Turkey. GEER surface fault rupture team.  
2020      M6.5 Monte Cristo Mountains earthquake, Nevada. Field coordinator, surface rupture team,  
collaboration with USGS and CGS.

- 2019 Mw6.4 and Mw7.1 Ridgecrest earthquakes, southern California. Surface rupture team, collaboration with USGS, CGS, and GEER.
- 2018 M7.0 Anchorage Alaska earthquake. Rapid response co-team leader (GEER), collaboration with USGS.

### SELECT PUBLICATIONS

\*Indicates student working under my advisement

- Koehler, R.D.**, Stirling, M., and Sion, B. (2026). Paleoseismology of the Buffalo Valley, Buena Vista, and southern Shoshone faults, central Basin and Range, Nevada, USA. *Seismica*, 5(1). doi: [10.26443/seismica.v5i1.2648](https://doi.org/10.26443/seismica.v5i1.2648).
- Koehler, R.D.**, Rowe, C. D., Vlaha, D.R., Masoch, S., Wagoner, N., Jiang, Y., Trugman, D.T., Bogolub, K., Hammond, W.C., Crandall-Bear, A., Kratt, C., Dohm, K., and Vlcan, J. (2025), The 09 December 2024 M5.7 Parker Butte Earthquake: Orthogonal surface fracturing and associated ground disturbances near Yerington, Nevada, central Walker Lane, *Seismica*, v. 4, no. 2. doi: [10.26443/seismica.v4i2.1702](https://doi.org/10.26443/seismica.v4i2.1702)
- \*Pierce, I. and Koehler, R.D., 2023, 3D paleoseismology from iOS lidar and Structure from Motion photogrammetry: a case study on the Dog Valley fault, California, *Seismica*, 2(1), <https://doi.org/10.26443/seismica.v2i1.208>.
- Koehler, R.D.**, S. Dee, A. Elliott, A. Hatem, A. Pickering, I. Pierce, G. Seitz, 2021, Field response and surface rupture characteristics of the 2020 M6.5 Monte Cristo Mountains earthquake, central Walker Lane, Nevada: *Seismological Research Letters*, v. 92, 823-839.
- \*Chupik, C., **Koehler, R.D.**, and Keen-Zebert, A., 2022, Quaternary mapping, and paleoseismic investigation of the Warm Springs Valley fault, northern Walker Lane, Nevada- northern California, *Bulletin of the Seismological Society of America*, v. 112, no. 1, p. 575-596.
- \*De Masi, C., **Koehler, R.D.**, Dee, S., Keen-Zebert, A., 2021, Early development of strike-slip faulting: Paleoseismic study along the Petersen Mountain fault, northern Walker Lane, Nevada, *Journal of Quaternary Science*, v. 36, no. 3, p. 403-414.
- Koehler, R.D.**, Reger, R.D., Spangler, E.R., and Hubbard, T.D., 2019, Assessment of geomorphology and geologic hazards in the Parks Highway-Minto Flats-Dalton Highway infrastructure corridor: Cook Inlet to Prudhoe Bay, Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2019-8, 82 p., 4 sheets.
- Anderson, J.G., **Koehler, R.D.**, and 22 others, 2019, A seismic hazards overview of the urban regions of Nevada: Recent advancements and research directions, *Seismological Research Letters*, v. 90, no 4, pp. 1577-1583.
- Koehler, R.D.**, 2019, Active faulting in the North Valleys region of Reno, Nevada: A distributed zone within the northern Walker Lane, *Geomorphology*, v. 326, p. 38-53.
- Koehler, R.D.**, and Carver, G.A., 2018, Active faults and Seismic Hazards in Alaska, Alaska Division of Geological & Geophysical Surveys, Miscellaneous Publication MP 160, 59 p.
- Koehler, R.D.**, Reger, R.D., and Spangler, E., and Gould, A.I., 2016, Investigation of potentially active tectonic faults along the route of the proposed ASAP pipeline, Livengood To Anchorage, Alaska, State of Alaska, Division of Geological & Geophysical Surveys, Report of Investigation 2015-4, 71 p.
- Koehler, R.D.**, Mann, P., Prentice, C.S., Grandison-Wiggins, M., Bedford, B., and Brown, L., 2013, The Enriquillo-Plantain Garden fault in Jamaica: paleoseismology and seismic hazard, *Bulletin of the Seismological Society of America*, v. 103, issue 2a, p. 971-983.
- Koehler, R.D.**, Farrell, R-E, Burns, P., and Combellick, R., 2012, Quaternary faults and folds of Alaska: A digital database, Miscellaneous Publication MP 141, Alaska Division of Geological and Geophysical surveys.
- Koehler, R.D.**, and Wesnousky, S.G., 2011, Late Pleistocene regional extension rate derived from earthquake geology of late Quaternary faults across Great Basin, Nevada between 38.5<sup>o</sup> and 40<sup>o</sup> N latitude, *Geological Society of America Bulletin*, v. 123, no. 3-4, p. 631-650.