

Jennifer Vlean, GISP

Chief Cartographer | Manager – Cartography, GIS & Publications Team

Nevada Bureau of Mines and Geology
Mackay School of Earth Sciences and Engineering
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University of Nevada, Reno

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Education

B.F.A. Visual Communications, with highest honors, American InterContinental University–Online, 2005
A.A.S. Graphic Design, A.A, A.G.S., and Certificate of Graphic Communications, Western Nevada College, 2003

Certified Geographic Information Systems Professional (GISP), Geographic Information Systems Institute #91205, 2015

Areas of Expertise

Graphic design
Cartography
Geographic Information Systems (GIS)
Web GIS
Web design
Publications layout and typography
Nevada geospatial data

Professional Experience

2014–present: Business Process Analyst III (Chief Cartographer/Manager)
2006–2014: Business Process Analyst II (Interim Chief Cartographer/Manager 2009–2014)
2004–2006: Cartographic/Graphics Technician I
Nevada Bureau of Mines and Geology, University of Nevada, Reno

2009–2012: Graphic Communications Instructor
Western Nevada College, Carson City, NV
Computer Illustration I
Electronic Page Layout and Typography I
Electronic Page Layout and Typography II

2000–2004: GIS Technician
Gnomon, Inc., Carson City, NV

Memberships/Committees

North American Cartographic Information Society (2012–present)
Nevada Geographic Information Society (2015–present, Board Member 2015–2018)
Nevada State Mapping Advisory Committee (Executive Secretary 2011–present)
National States Geographic Information Council (State Representative 2011–2013)

Honors and Awards

Alice Kellames Award for Outstanding Classified Service, Mackay School of Earth Sciences and Engineering, University of Nevada, Reno, 2011

ESRI Special Achievement in GIS award presented to NBMG Cartography & GIS team, ESRI User Conference, 2014

Cartographic work selected for publication in *ESRI Map Book*, Volume 28, 2013

1st place, “Cartographic” category for *A Geodetic Strain Rate Model for the Pacific-North American Plate Boundary, Western United States*, Nevada Geographic Information Society, 2013

1st place, “Artographic” category for *Damaging Earthquakes in Nevada: 1840s to 2010*, Nevada Geographic Information Society, 2013

1st place, “Cartographic” category for *Geologic Map of the Wells Area, Elko County, Nevada*, Nevada Geographic Information Society, 2011

2nd place “Artographic” of *Quaternary Faults in Nevada*, Nevada Geographic Information Society, 2009

3rd place, “Cartographic” category for *Geologic Map of the Devils Throat Quadrangle, Clark County, Nevada*, Nevada Geographic Information Society, 2013

3rd Place “Cartographic” category for cartographic work on the Minden quadrangle geologic map, Nevada Geographic Information Society, 2015

Significant Project Contributions

Graphic design of *Nevada Geology calendar*, 2013 – present (<http://pubs.nbmgs.unr.edu/Calendars-s/1853.htm>)

Nevada Geologic Maps web application (<https://gisweb.unr.edu/geologicmaps/>)

Nevada Mineral Resource Database web application (currently in production, expected launch Spring 2020)

MyHazards-Nevada web application (<https://gisweb.unr.edu/myhazards/>)

W.M. Keck Earth Sciences and Mining Research website overhaul (in progress), 2019–present (<http://keck.library.unr.edu>)

NBMG information architecture planning and development to support NBMG Web-GIS/Open Data operations

NBMG website overhaul including design and HTML/CSS coding, 2010

Publications and Cartographic Work

Anderson, R.B., Faulds, J.E., and Dering, G.M., 2013, Preliminary geologic map of the central Lake Range, southern Fox Range, and northern Terraced Hills, Emerson Pass geothermal area, Washoe County, Nevada (second edition): Nevada Bureau of Mines and Geology Open-File Report 13-10, scale 1:24,000, 9 p. [cartography by Anderson, R.B., and **Mauldin, J.**]

Beard, L.S., Campagna, D.J., 2012, Geologic Map of the Devils Throat quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology Map 181, scale 1:24,000, 9 p. [cartography by Armeno, H., and **Mauldin, J.**]

Bell, J.W., Garside, L.J., and House, P.K., 2005, Geologic map of the Wadsworth quadrangle, Washoe County, Nevada: Nevada Bureau of Mines and Geology Map 153, scale 1:24,000. [cartography by Chaney, R., and **Mauldin, J.**]

Bell, J.W., and House, P.K., 2010, Geologic map of the Grimes Point quadrangle, Churchill County, Nevada: Nevada Bureau of Mines and Geology Map 173, 1:24,000 scale, 24 p. [cartography by Armeno, H., and **Mauldin, J.**]

Bell, J.W., House, P.K., and Briggs, R.W., 2004, Preliminary geologic map of the east half of the Pah Rah Mountain quadrangle, Washoe County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 04-3, 1:24,000 scale. [cartography by **Mauldin, J.**]

Carlson, C.W., 2014, Geologic map of the Terrill Mountains quadrangle, Churchill and Mineral counties, Nevada: Nevada Bureau of Mines and Geology Open-File Report 14-4, scale 1:24,000. [cartography by Carlson, C.W., and **Vlcan, J.**]

Castor, S.B., House, P.K., Hudson, D.M., and Henry, C.D., 2013, Geologic map of the Flowery Peak quadrangle, Storey and Lyon counties, Nevada: Nevada Bureau of Mines and Geology Map 180, scale 1:24,000, 24 p. [cartography by **Mauldin, J.**, Armeno, H., and Seelye, I.M.]

Castor, S.B., House, P.K., and Hudson, D.M., 2006, Preliminary geologic map of the Flowery Peak quadrangle, Storey and Lyon counties, Nevada: Nevada Bureau of Mines and Geology Open-File Report 06-6, scale 1:24,000, 16 p. [cartography by **Mauldin, J.**]

Castor, S.B., House, P.K., and Hudson, D.M., 2005, Preliminary geologic map of the west half of the Flowery Peak quadrangle, Storey and Lyon counties, Nevada: Nevada Bureau of Mines and Geology Open-File Report 05-4, scale 1:24,000. [cartography by **Mauldin, J.**]

Colgan, J.P., Henry, C.D., and John, D.A., 2011, Geologic map of the Caetano caldera, Lander and Eureka counties, Nevada: Nevada Bureau of Mines and Geology Map 174, scale 1:75,000, 10 p. [cartography by Colgan, J.P., and **Mauldin, J.**]

dePolo, C. M., 2008, Quaternary faults in Nevada: Nevada Bureau of Mines and Geology Map 167, scale 1:1,000,000. [cartography by **Mauldin, J.**]

- dePolo, C. M., 2012, Damaging Earthquakes in Nevada—1840s to 2008: Nevada Bureau of Mines and Geology Special Publication 37 [cartography and design by **Mauldin, J.**]
- dePolo, C.M., and Earl, P.I., 2006, Effect and response in Nevada to the great 1906 San Francisco, California earthquake: Nevada Bureau of Mines and Geology Open-File Report 06-3 [cartography and layout by **Mauldin, J.**]
- dePolo, C.M., Johnson, G.J., Price, J.G., and **Mauldin, J.M.**, 2009, Quaternary faults in Nevada—online interactive map: Nevada Bureau of Mines and Geology Open-File Report 09-9, 4 p.
- dePolo, D.M., and dePolo, C. M., 2012, Earthquakes in Nevada—1840s to 2010: Nevada Bureau of Mines and Geology Map 179, scale 1:1,000,000. [cartography by **Mauldin, J.**]
- Dering, G.M., and Faulds, J.E., 2013, Preliminary geologic map of the Tuscarora geothermal area, Elko County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 13-5, 2 plates, scale 1:24,000, 4 p. [cartography by **Dering, G.M., Richardson, M., and Mauldin, J.**]
- Faulds, J.E., Ramelli, A.R., and Castor, S.B., 2010, Preliminary geologic map of the Searchlight quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 10-13, scale 1:24,000. [cartography by **Mauldin, J.**]
- Faulds, J.E., Ramelli, A.R., Garside, L.J., Coolbaugh, M.F., and Green, H.L., 2012, Preliminary geologic map of the Desert Peak quadrangle, Churchill County, Nevada: Nevada Bureau of Mines and Geology Open File Report 12-5, scale 1:24,000. [cartography by **Mauldin, J., and Richardson, M.**]
- Faulds, J.E., Ramelli, A.R., and Lledo, H., 2006, Preliminary geologic map of the north half of the Searchlight quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 06-15, scale 1:24,000, 11 p. [cartography by **Mauldin, J.**]
- Faulds, J.E., Ramelli, A.R., and Perkins, M. E., 2011, Preliminary geologic map of the Hazen quadrangle, Lyon and Churchill counties, Nevada: Nevada Bureau of Mines and Geology Open-File Report 11-8, scale 1:24,000. [cartography by **and Richardson, M., Seelye, I, and Mauldin, J.**]
- Garside, L.J, and Bonham, H.F, 2006, Geologic map of the Olinghouse quadrangle, Washoe County, Nevada: Nevada Bureau of Mines and Geology Map 157, scale 1:24,000. [cartography by **Chaney, R., Tingley, S., Arritt, C., and Mauldin, J.**]
- Garside, L.J., Nials, F.L., and Ramelli, A.R., 2010, Preliminary geologic map of the Griffith Canyon quadrangle, Washoe County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 10-2, scale 1:24,000, 7 p. [cartography by **Richardson, M., and Mauldin, J.**]
- Henry, C.D., Ramelli, A.R., and Boden, D.R., 2007, Preliminary geologic map of the Stockton Flat Well quadrangle, Lyon and Storey counties, Nevada: Nevada Bureau of Mines and Geology Open-File Report 07-5, scale 1:24,000. [cartography by **Mauldin, J.**]
- Henry, C.D., Ramelli, A.R., Faulds, J.F., and Widmer, M., 2009, Geologic map of the Seven Lakes Mountain quadrangle, Washoe County, Nevada and the eastern part of the Constantia quadrangle, Lassen County, California, with a section on Gravity-based geologic cross sections: Nevada Bureau of Mines and Geology Map 164, scale 1:24,000, 27 p. [cartography by **Armeno, H., Arritt, C., and Mauldin, J.**]
- Henry, C.D, and Thorman, C.H., 2011, Geologic map of the Wells area, Elko County, Nevada, scale 1:48,000 in dePolo, C.M., and LaPointe, D.D., editors, 2011, The 21 February 2008 M_w 6.0 Wells, Nevada Earthquake—a compendium of earthquake-related investigations prepared by the University of Nevada, Reno: Nevada Bureau of Mines and Geology Special Publication 36. [cartography by **Armeno, H., and Mauldin, J.**]
- Henry, C.D., and Thorman, C.H., 2015, Preliminary geologic map of the Pequop Summit quadrangle, Elko County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 15-8, scale 1:24,000, 12 p. [cartography by **Ryan, K., Micander, R., and Vican, J.**]
- Hess, R.H., and Davis, D.A., 2009, Nevada active mines and energy producers: Nevada Bureau of Mines and Geology Educational Series 49 [cartography by **Armeno, H., and Mauldin, J.**]
- Hinz, N.H., Faulds, J.E., and Bell, J.W., 2011, Preliminary geologic map of the Bunejug Mountains quadrangle, Churchill County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 11-9, scale 1:24,000. [cartography by **Mauldin, J.**]
- Hinz, N.H., Ramelli, A.R., and Faulds, J.E., 2014, Preliminary geologic map of the Mount Rose quadrangle, Washoe County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 14-7, 1:24,000 scale, 4 p. [cartography by **Vican, J., Ryan, K., Wearne, R., and Seelye, I.**]
- Hoelt, J.S., and Frankel, K. L., 2012, Preliminary surficial geologic map along the northwest Lone Mountain and Weepah Hills piedmonts, Esmeralda County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 12-1, scale 1:24,000. [cartography by **Mauldin, J.**]
- House, P.K., Brock, A.L., Pearthree, P.A., 2008, Preliminary geologic map of late Cenozoic deposits in the Spirit Mtn. SE quadrangle, Clark County, Nevada and Mohave County, Arizona: Nevada Bureau of Mines and Geology Open-File Report 08-3, scale 1:24,000. [cartography by **Arritt, C., and Mauldin, J.**]
- House, P.K., Brock, A.L., Pearthree, P.A., 2005, Preliminary geologic map of the late Cenozoic alluvium in the west half of the Spirit Mtn. SE quadrangle, Clark County, Nevada and Mohave County, Arizona: Nevada Bureau of Mines and Geology Open-File Report 05-8, scale 1:24,000. [cartography by **Arritt, C., and Mauldin, J.**]

- House, P.K., and Faulds, J.E., 2008, Preliminary geologic map of the north half of the Spirit Mtn. NW quadrangle, Clark County, Nevada and Mohave County, Arizona: Nevada Bureau of Mines and Geology Open-File Report 08-5, scale 1:24,000. [cartography by Richardson, M., and Mauldin, J.]
- House, P.K., and Faulds, J.E., 2009, Preliminary geologic map of the Spirit Mtn. NW quadrangle, Clark County, Nevada and Mohave County, Arizona: Nevada Bureau of Mines and Geology Open-File Report 09-6, scale 1:24,000. [cartography by Richardson, M., and Mauldin, J.]
- House, P.K., Green, H., Grimmer, A., and Digital Dirt Mapping Team, 2010, Preliminary surficial geologic map of Clark County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 10-7, scale 1:150,000. [cartography by Richardson, M., Mauldin, J. and Seelye, I.]
- House, P.K., Park, B.K., and Ramelli, A.R., 2004, Preliminary surficial geologic map of the Nevada part of the Desert quadrangle: Nevada Bureau of Mines and Geology Open-File Report 08-5, scale 1:24,000. [cartography by Crouse, E., and Mauldin, J.]
- House, P.K., Park, B.K., and Ramelli, A.R., 2005, Preliminary surficial geologic map of the Hidden Valley quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 05-5, scale 1:24,000. [cartography by Mauldin, J., and Arritt, C.]
- House, P.K., Park, B.K., and Ramelli, A.R., 2004, Preliminary surficial geologic map of the west half of the Hidden Valley quadrangle, Nevada: Nevada Bureau of Mines and Geology Open-File Report 04-8, scale 1:24,000. [cartography by Mauldin, J.]
- Hursh, J., **Vlcan, J.**, and Henry, C., 2020, Nevada geology calendar 2020: Nevada Bureau of Mines and Geology CAL2020.
- Hursh, J., **Vlcan, J.**, and Henry, C., 2019, Nevada geology calendar 2019: Nevada Bureau of Mines and Geology CAL2019.
- Hursh, J., **Vlcan, J.**, Henry, C., and Hinz, N., 2018, Nevada geology calendar 2018: Nevada Bureau of Mines and Geology CAL2018.
- Hursh, J., **Vlcan, J.**, Henry, C., and Hinz, N., 2017, Nevada geology calendar 2017: Nevada Bureau of Mines and Geology CAL2017.
- Hursh, J., **Vlcan, J.**, Henry, C., and Hinz, N., 2016, Nevada geology calendar 2016: Nevada Bureau of Mines and Geology CAL2016.
- Hursh, J., **Vlcan, J.**, Henry, C., and Hinz, N., 2015, Nevada geology calendar 2015: Nevada Bureau of Mines and Geology CAL2015.
- Hursh, J., **Mauldin, J.**, Henry, C., and Hinz, N., 2014, Nevada geology calendar 2014: Nevada Bureau of Mines and Geology CAL2014.
- Hursh, J., **Mauldin, J.**, and Henry, C., 2013, Nevada geology calendar 2013: Nevada Bureau of Mines and Geology CAL2013.
- Kreemer, C., Hammond, W.C., Blewitt, G., Holland, A.A., and Bennett, D.A., 2012, A geodetic strain rate model for the Pacific–North American plate boundary, western United States: Nevada Bureau of Mines and Geology Map 178, scale 1:500,000 at latitude 39. [cartography by Mauldin, J.]
- Long, S.P., Preliminary geologic map of Heath Canyon, central Grant Range, Nye County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 14-6, scale 1:24,000, 4 p. [cartography by Long, S.P., **Vlcan, J.**, and Ryan, K.]
- Muntean, J.L., and Davis, D.A., 2019, Nevada active mines and energy producers: Nevada Bureau of Mines and Geology Educational Series 64 [cartography by Wilson, S.C., and **Vlcan, J.**]
- Muntean, J.L., and Davis, D.A., 2017, Nevada active mines and energy producers: Nevada Bureau of Mines and Geology Educational Series 60 [cartography by **Vlcan, J.**]
- Muntean, J.L., and Davis, D.A., 2014, Nevada active mines and energy producers: Nevada Bureau of Mines and Geology Educational Series 54 [cartography by **Vlcan, J.**]
- Muntean, J.L., and Davis, D.A., 2019, Nevada active mines and energy producers: Nevada Bureau of Mines and Geology Open-File Report 19-1, compilation scale 1:1,000,000 [cartography by Wilson, S.C., and **Vlcan, J.**]
- Muntean, J.L., and Davis, D.A., 2017, Nevada active mines and energy producers: Nevada Bureau of Mines and Geology Open-File Report 17-1, compilation scale 1:1,000,000 [cartography by **Vlcan, J.**]
- Muntean, J.L., and Davis, D.A., 2014, Nevada active mines and energy producers (second edition): Nevada Bureau of Mines and Geology Open-File Report 14-1, compilation scale 1:1,000,000 [cartography by Armeno, H., Richardson, M., and **Vlcan, J.**]
- Muntean, J.L., Hill, T.J., Hannink, R.L., Smith, M., Raabe, K., and Shabestari, P., 2017, Preliminary geologic map of the south Kinsley Mountains, Elko and White Pine counties, Nevada: Nevada Bureau of Mines and Geology Open-File Report 15-9, scale 1:12,000, 3 p. [cartography by Ryan, K., and **Vlcan, J.**]
- Nevada Bureau of Mines and Geology, 2006, Mineral- and resource-potential in Pershing County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 06-7 [cartography and layout by **Vlcan, J.**]
- Nevada Bureau of Mines and Geology, 2006, Mineral- and resource-potential in Pershing County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 06-6 [cartography and layout by **Vlcan, J.**]
- Nevada Bureau of Mines and Geology, 2006, Mineral- and resource-potential in White Pine County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 06-5 [cartography and layout by **Vlcan, J.**]

- Otto, B.R., 2008, Geologic map of the central Butte Range, White Pine County, Nevada: Nevada Bureau of Mines and Geology Map 160: scale 1:48,000, 8 p. [*cartography by **Vlcan, J.** and Richardson, M.*]
- Ramelli, A.R., Henry, C.D., and Walker, J.P., with contributions by Bell, J.W., Cashman, P.H., dePolo, C.M., Garside, L.J., House, P.K., Trexler, J.H., and Widmer, M.C., 2011, Preliminary revised geologic maps of the Reno urban area, Nevada: Nevada Bureau of Mines and Geology Open-File Report 11-7, 3 plates, scale 1:24,000. [*cartography by Richardson, M., Seelye, I., and **Mauldin, J.***]
- Ramelli, A.R., Henry, C.D., and Walker, J.P., with contributions by Bell, J.W., Cashman, P.H., dePolo, C.M., Garside, L.J., House, P.K., Trexler, J.H., and Widmer, M.C., 2010, Preliminary revised geologic maps of the Verdi, Reno, and Vista 7.5' quadrangles, Reno urban area, Nevada: Nevada Bureau of Mines and Geology Open-File Report 10-11, scale 1:24,000. [*cartography by Richardson, M., Seelye, I., and **Mauldin, J.***]
- Ramelli, A.R., Yount, J.C., John, D.A., and Garside, L.J., 2014, Geologic map of the Minden quadrangle, Douglas County, Nevada and Alpine County, California: Nevada Bureau of Mines and Geology Map 182, scale 1:24,000, 8p. [*cartography by **Vlcan, J.**, Richardson, M., and Wearne, R.*]