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**Curriculum Vitae**  
(updated 5-30-2017)

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**Education:**

Ph.D., Geology                      Princeton University, 2010  
M.S., Geology                      Idaho State University, 2004  
B.S., Mathematics                The College of Idaho, 2001

**Professional experience:**

2015-present      Associate editor, American Geophysical Union journal *Tectonics*  
2015-present      Associate professor, School of the Environment, Washington State  
University  
2010-2015        Assistant professor, Nevada Bureau of Mines and Geology, University  
of Nevada, Reno  
2006-2010        Teaching/research assistant, Princeton University  
2008 Summer     Internship, Chevron Energy Technology Corporation  
2006 Summer     Contract field geologist, New Mexico Bureau of Geology and Mineral  
Resources  
2005-2006        Adjunct instructor/research associate, Idaho State University  
2004                Environmental consulting geologist, Glorieta Geoscience, Inc., Santa  
Fe, New Mexico  
2002-2004        Teaching/research assistant, Idaho State University  
2002 Spring      Teaching assistant, University of Idaho

**Google Scholar citation indices** (as of 5-30-17):

**Total citations:** 788 (679 since 2012)  
**h-index:** 14 (14 since 2012)  
**i10-index:** 16 (15 since 2012)

**Publications:** (*asterisk denotes graduate student advisee author*)

**A. Peer-reviewed journal articles and geologic maps:**

*In press:*

34. Calle, A.Z., Horton, B.K., Limachi, R., Stockli, D.F., Uzeda-Orellana, G.V., Anderson, R.B.\*, and **Long, S.P.**, in revision, Cenozoic provenance and depositional record of the Subandean foreland basin during growth of the central Andean fold-thrust belt, southern Bolivia, *in* Zamora, G., McClay, K., and Ramos, V., Petroleum Basins and Hydrocarbon Potential of the Andes of Peru and Bolivia: American Association of Geologists Memoir: accepted 5-23-17.
33. **Long, S.P.**, Gordon, S.M., and Soignard, E., in press, Distributed north-vergent shear and flattening through Greater and Tethyan Himalayan rocks: insights from metamorphic and strain data from the Dang Chu region, central Bhutan: *Lithosphere*, accepted 5-12-17, doi: 10.1130/L655.1.

*Published:*

32. Anderson, R.B. \*, **Long, S.P.**, Horton, B.K., and Calle, A.Z., and Ramirez, V., 2017, Shortening and structural architecture of the Andean fold-thrust belt of southern Bolivia (21°S): Implications for kinematic development and crustal thickening of the central Andes: *Geosphere*, v. 13, p. 538-558, doi:10.1130/GES01433.1.
31. **Long, S.P.**, Gordon, S.M., Young, J.P., and Soignard, E, 2016, Temperature and strain gradients through Lesser Himalayan rocks and across the Main Central thrust, south-central Bhutan: implications for transport-parallel stretching and inverted metamorphism: *Tectonics*, v. 35, p. 1863-1891, doi: 10.1002/2016TC004242.
30. Agustsson, K.M., Gordon, S.M., **Long, S.P.**, Seward, G.G.E., Zeiger, K., and Penfold, M.\*, 2016, Pressure–temperature–structural distance relationships within Greater Himalayan rocks in eastern Bhutan: implications for emplacement models: *Journal of Metamorphic Geology*, v. 34, p. 641-662, doi: 10.1111/jmg.12197.
29. **Long, S.P.**, and Soignard, E., 2016, Shallow-crustal metamorphism during Late Cretaceous anatexis in the Sevier hinterland plateau: peak temperature conditions from the Grant Range, eastern Nevada, U.S.A.: *Lithosphere*, v. 8, p. 150-164, doi: 10.1130/L501.1.
28. **Long, S.P.**, and Walker, J.P., 2015, Geometry and kinematics of the Grant Range brittle detachment system, eastern Nevada, U.S.A.: an end-member style of upper-crustal extension: *Tectonics*, v. 34, p. 1837-1862, doi: 10.1002/2015TC003918.
27. Zeiger, K., Gordon, S.M., **Long, S.P.**, Kylander-Clark, A.R.C., Agustsson, K., and Penfold, M.\*, 2015, Timing and conditions of metamorphism and melt

crystallization in Greater Himalayan rocks, eastern and central Bhutan: insight from U-Pb zircon and monazite geochronology and trace-element analyses: *Contributions to Mineralogy and Petrology*, v. 169, article 47, 19 p., doi: 10.1007/s00410-015-1143-6.

26. Di Fiori, R.V.\*, **Long, S.P.**, Muntean, J.L., and Edmondo, G.P., 2015, Structural analysis of gold mineralization in the southern Eureka mining district, Nevada: a predictive structural setting for Carlin-type gold deposits: *in* Pennell, W.M., and Garside, L.J., eds., *New Concepts and Discoveries: Geological Society of Nevada Symposium Proceedings*, May 2015, Sparks, Nevada, v. 1, p. 885-903. (2 peer-reviews)
25. **Long, S.P.**, Thomson, S.N., Reiners, P.W., and Di Fiori, R.V.\*, 2015, Synorogenic extension localized by upper-crustal thickening: an example from the Late Cretaceous Nevadaplano: *Geology*, v. 43, p. 351-354, doi:10.1130/G36431.1.
24. **Long, S.P.**, 2015, An upper-crustal fold province in the hinterland of the Sevier orogenic belt, eastern Nevada, U.S.A.: a Cordilleran Valley and Ridge in the Basin and Range: *Geosphere*, v. 11, p. 404-424, doi:10.1130/GES01102.1.
23. **Long, S.P.**, Henry, C.D., Muntean, J.L., Edmondo, G.P., and Thomas, R.D., 2014, Geologic map of the southern part of the Eureka mining district, and surrounding areas of the Fish Creek Range, Mountain Boy Range, and Diamond Mountains, Eureka and White Pine Counties, Nevada: Nevada Bureau of Mines and Geology Map 183, 1:24,000-scale, 2 plates, 36 p. (3 peer-reviews)
22. Di Fiori, R.V.\*, **Long, S.P.**, Edmondo, G.P., and Muntean, J.L., 2014, Preliminary geologic and alteration maps of Lookout Mountain, Ratto Ridge, and Rocky Canyon, southern Eureka mining district, Eureka County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 14-8, 1:10,000-scale, 2 plates. (non-reviewed)
21. **Long, S.P.**, 2014, Preliminary geologic map of Heath Canyon, central Grant Range, Nye County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 14-6, 1:24,000-scale, 1 plate, 4 p. (non-reviewed)
20. **Long, S.P.**, Henry, C.D., Muntean, J.L., Edmondo, G.P., and Cassel, E.J., 2014, Early Cretaceous construction of a structural culmination, Eureka, Nevada, U.S.A.: implications for out-of-sequence deformation in the Sevier hinterland: *Geosphere*, v. 10, p. 564-584, doi:10.1130/GES00997.1.
19. McQuarrie, N., Tobgay, T., **Long, S.P.**, Reiners, P.W., and Cosca, M.A., 2014, Variable exhumation rates and variable displacement rates: documenting a recent slowing of Himalayan shortening in western Bhutan: *Earth and Planetary Science Letters*, v. 386, p. 161-174, doi:10.1016/j.epsl.2013.10.045.

18. McQuarrie, N., **Long, S.P.**, Tobgay, T., Nesbit, J.N., Gehrels, G., and Ducea, M., 2013, Documenting basin scale, geometry and provenance through detrital geochemical data: lessons from the Neoproterozoic to Ordovician Lesser, Greater, and Tethyan Himalayan strata of Bhutan: *Gondwana Research*, v. 23, p. 1491-1510, doi:10.1016/j.gr.2012.09.002.
17. **Long, S.P.**, McQuarrie, N., Tobgay, T., Coutand, I., Cooper, F.J., Reiners, P.W., Wartho, J., and Hodges, K.V., 2012, Variable shortening rates in the eastern Himalayan thrust belt, Bhutan: insights from multiple thermochronologic and geochronologic datasets tied to kinematic reconstructions: *Tectonics*, v. 31, TC5004, 23 p., doi:10.1029/2012TC003155.
16. **Long, S.P.**, 2012, Magnitudes and spatial patterns of erosional exhumation in the Sevier hinterland, eastern Nevada and western Utah, USA: Insights from a Paleogene paleogeologic map: *Geosphere*, v. 8, p. 881-901, doi:10.1130/GES00783.1.
15. Lewis, R., Link, P.K., Stanford, L., and **Long, S.**, 2012, Geologic Map of Idaho: Idaho Geological Survey Map 9, 1:750,000-scale, 1 plate, 18 p. (6 peer reviews)
14. Corrie, S.L., Kohn, M.J., McQuarrie, N., and **Long, S.P.**, 2012, Flattening the Bhutan Himalaya: *Earth and Planetary Science Letters*, v. 349-350, p. 67-74, doi:10.1016/j.epsl.2012.07.001.
13. Tobgay, T., McQuarrie, N., **Long, S.**, Kohn, M., and Corrie, S., 2012, The age and rate of displacement along the Main Central thrust in the western Bhutan Himalaya: *Earth and Planetary Science Letters*, v. 319-320, p. 146-158, doi:10.1016/j.epsl.2011.12.005.
12. **Long, S.P.**, McQuarrie, N., Tobgay, T., Grujic, D., and Hollister, L., 2011, Geologic map of Bhutan: *The Journal of Maps*, v2011, p. 184-192, 1:500,000-scale, doi:10.4113/jom.2011.1159. (3 peer reviews)
11. **Long, S.**, McQuarrie, N., Tobgay, T., and Hawthorne, J., 2011, Quantifying internal strain and deformation temperature in the eastern Himalaya: Implications for the evolution of strain in thrust sheets: *Journal of Structural Geology*, v. 32, p. 579-608, doi:10.1016/j.jsg.2010.12.011.
10. **Long, S.**, McQuarrie, N., Tobgay, T., and Grujic, D., 2011, Geometry and crustal shortening of the Himalayan fold-thrust belt, eastern and central Bhutan: *Geological Society of America Bulletin*, v. 123, p. 1427-1447, doi:10.1130/B30203.1.
9. **Long, S.**, McQuarrie, N., Tobgay, T., Rose, C., Gehrels, G., and Grujic, D., 2011, Tectonostratigraphy of the Lesser Himalaya of Bhutan: Implications for the along-strike stratigraphic continuity of the northern Indian margin: *Geological Society of America Bulletin*, v. 123, p. 1406-1426, doi:10.1130/B30202.1.

8. Tobgay, T., **Long, S.**, McQuarrie, N., Ducea, M., and Gehrels, G., 2010, Using isotopic and chronologic data to fingerprint strata: the challenges and benefits of variable sources to tectonic interpretations, the Paro Formation, Bhutan Himalaya: *Tectonics*, v. 29, TC6023, doi:10.1029/2009TC002637.
7. **Long, S.**, and McQuarrie, N., 2010, Placing limits on channel flow: insights from the Bhutan Himalaya: *Earth and Planetary Science Letters*, v. 290, p. 375-390, doi:10.1016/j.epsl.2009.12.033.
6. McQuarrie, N.M., Robinson, D., **Long, S.**, Tobgay, T., Grujic, D., Gehrels, G., and Ducea, M., 2008, Preliminary stratigraphic and structural architecture of Bhutan: Implications for the along strike architecture of the Himalayan system: *Earth and Planetary Science Letters*, v. 272, p. 105-117, doi:10.1016/j.epsl.2008.04.030.
5. **Long, S.P.**, and Link, P.K., 2007, Geologic Map Compilation of the Malad City 30' x 60' Minute Quadrangle, Idaho: Idaho Geological Survey Technical Report T-07-1, 1:100,000-scale. (non-reviewed)
4. **Long, S.P.**, Link, P.K., Janecke, S.U., Perkins, M.E., and Fanning, C.M., 2006, Multiple phases of Tertiary extension and synextensional deposition of the Miocene-Pliocene Salt Lake Formation in an evolving supradetachment basin, Malad Range, Southeast Idaho, U.S.A.: *Rocky Mountain Geology*, v. 41, no. 1, p. 1-27, doi:10.2113/gsrocky.41.1.1.
3. Rodgers, D.W., **Long, S.P.**, McQuarrie, N., Burgel, W.D., and Hersley, C.F., 2006, Geologic Map of the Inkom Quadrangle, Bannock County, Idaho: Idaho Geological Survey Technical Report T-06-2, 1:24,000-scale. (non-reviewed)
2. Steely, A.N., Janecke, S.U., **Long, S.P.**, Carney, S.J., Oaks, R.Q., Langenheim, V.E., and Link, P.K., 2005, Evolution of a late Cenozoic supradetachment basin above a flat-on-flat detachment with a folded lateral ramp, SE Idaho, *in* Pederson, J., and Dehler, C.M., eds., *Interior Western United States: Geological Society of America Field Guide 6*, p. 169-198, doi:10.1130/2005.fld006(08). (1 peer review)
1. **Long, S.P.**, Link, P.K., Janecke, S.U., and Rodgers, D.W., 2004, Geologic map of the Henderson Creek quadrangle, Oneida County, Idaho: Idaho Geological Survey Technical Report T-04-3, 1:24,000-scale. (non-reviewed)

***B. Conference abstracts:***

54. Fetrow, A.C., Snell, K.E., **Long, S.P.**, and Bonde, J.W., in review, A paleoclimatic record from the "Nevadaplano" during the Middle Cretaceous using stable isotopes and clumped isotope paleothermometry: *Goldschmidt Abstracts*, v. 2017.

53. **Long, S.P.**, and Walker, J.P., 2016, The Grant Range in eastern Nevada: a 'proto' core complex exhumed entirely by brittle, low-angle ( $\leq 15^\circ$ ) detachment faults: *Eos Trans.*, American Geophysical Union 97 (61), Fall Meet. Suppl., Abstract T21A-2795.
52. Di Fiori, R.V.\*, **Long, S.P.**, Rafferty, K., Snell, K., and Bonde, J., 2016, Early Cretaceous, syn-contractional deposition within the Sevier hinterland in central Nevada: preliminary insights from geologic mapping in the Diamond Mountains: *Eos Trans.*, American Geophysical Union 97 (61), Fall Meet. Suppl., Abstract T51D-2970.
51. Starnes, J.K.\*, **Long, S.P.**, Gordon, S.M., and Soignard, E., 2016, Peak metamorphic temperatures across the Main Central thrust and through Greater Himalayan rocks in western Bhutan: preliminary insights from Raman spectroscopy of carbonaceous material thermometry: *Eos Trans.*, American Geophysical Union 97 (61), Fall Meet. Suppl., Abstract V33D-3150.
50. **Long, S.P.**, and Walker, J.P., 2016, A structural model for brittle detachment faulting in the central Grant Range and the Grant Canyon and Bacon Flat oil fields in Railroad Valley, eastern Nevada: AAPG Pacific Section and Rocky Mountain Section Joint Meeting, October 2-5, 2016, Las Vegas, NV.
49. Anderson, R.B.\*, **Long, S.P.**, Horton, B.K., Calle, A.Z., and Ramirez, V., 2016, Retroarc crustal shortening and structural architecture of the Andean fold-thrust belt of southern Bolivia (21°S): Implications for kinematic development and crustal thickening of the central Andes: *Geological Society of America Abstracts with Programs*, Vol. 48, No. 7, doi: 10.1130/abs/2016AM-284079.
48. Anderson, R.B.\*, **Long, S.P.**, Horton, B.K., Calle, A.Z., and Ramirez, V., 2016, Regional geologic map across the Andean retroarc fold-thrust belt of southern Bolivia: New insights on the Subandean Zone, Interandean Zone, and Eastern Cordillera at 21°S: *Geological Society of America Abstracts with Programs*, Vol. 48, No. 7, doi: 10.1130/abs/2016AM-285926. (**1<sup>st</sup> place, Geological Society of America Best Student Map Competition, 2016 Annual Meeting**)
47. Zamora, C., Gordon, S.M., **Long, S.P.**, Kylander-Clark, A., and McDonald, C., 2016, Exhumation and cooling history of Greater Himalayan rocks in the eastern Himalaya: a U-Pb and  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronology study from central and eastern Bhutan: *Geological Society of America Abstracts with Programs*, Vol. 48, No. 7, doi: 10.1130/abs/2016AM-285232.
46. Gordon, S.M., Zamora, C., Kauffman, R., **Long, S.**, Agustsson, K., Gonzales-Clayton, B., and Kylander-Clark, A.R.C., 2016, Two-stage exhumation of Greater Himalayan rocks: P-T-t-D results from mid-crustal rocks of central and eastern Bhutan: *Goldschmidt Abstracts*, v. 2016, p. 974.

45. **Long, S.P.**, and Soignard, E., 2016, Shallow-crustal metamorphism during Late Cretaceous anatexis in the Nevadaplano: insights from a metamorphic field gradient through the upper crust, Grant Range, eastern Nevada, U.S.A.: Geological Society of America Abstracts with Programs, Vol. 48, No. 6, p. doi: 10.1130/abs/2016RM-276038.
44. **Long, S.P.**, Thomson, S.N., Reiners, P.W., and Di Fiori, R.V.\*, 2015, The role of upper-crustal thickening in spatially-focusing synorogenic extension: a case study from the Late Cretaceous-Paleocene Nevadaplano: Eos Trans., American Geophysical Union 96 (60), Fall Meet. Suppl., Abstract T21B-2812.
43. Anderson, R.B. \*, **Long, S.P.**, Ramirez, V., Horton, B.K., and Calle, A.Z., 2015, Crustal shortening and structural architecture of the Interandean and Subandean zones of southern Bolivia (21°S): constraints from a new balanced cross section: Eos Trans., American Geophysical Union 96 (60), Fall Meet. Suppl., Abstract T23A-2923.
42. Calle, A.Z., Horton, B.K., Anderson, R.B.\*, and **Long, S.P.**, 2015, Late Cretaceous-Cenozoic evolution of the central Andean foreland basin system in the Eastern Cordillera to Subandean Zone, southern Bolivia: Eos Trans., American Geophysical Union 96 (60), Fall Meet. Suppl., Abstract T23A-2924.
41. Gordon, S.M., Kauffman, R., Gonzales-Clayton, B., **Long, S.**, and Kylander-Clark, A., 2015, Monazite growth from the Eocene to the Miocene: new interpretations of the metamorphic history of Greater Himalayan rocks in the eastern Himalaya: Eos Trans., American Geophysical Union 96 (60), Fall Meet. Suppl., Abstract V41A-3058.
40. **Long, S.P.**, and Walker, J.P., 2015, Flexural isostatic folding during brittle, low-angle detachment faulting, Grant Range, eastern Nevada: a long-duration 'fixed hinge': Geological Society of America Abstracts with Programs, Vol. 47, No. 7, p. 370.
39. **Long, S.P.**, 2015, Map pattern and style of regional-scale contractional deformation in the Sevier hinterland in eastern Nevada: insights from sub-volcanic paleogeologic maps: *in* Pennell, W.M., and Garside, L.J., eds., New Concepts and Discoveries: Geological Society of Nevada Symposium Program with Abstracts, May 2015, Sparks, Nevada, v. 1, p. 78-79.
38. Di Fiori, R.V.\*, **Long, S.P.**, Muntean, J.L., and Edmondo, G.P., 2015, Structural analysis of gold mineralization in the southern Eureka mining district, Eureka County, Nevada: a predictive structural setting for Carlin-type mineralization: *in* Pennell, W.M., and Garside, L.J., eds., New Concepts and Discoveries: Geological Society of Nevada Symposium Program with Abstracts, May 2015, Sparks, Nevada, v. 1, p. 48-49.

37. **Long, S.P.**, 2014, A fold province in the hinterland of the Sevier orogenic belt in eastern Nevada: a Valley and Ridge in the Basin and Range: Eos Trans., American Geophysical Union 95 (59), Fall Meet. Suppl., Abstract T23A-4644.
36. Penfold, M.L.\*, **Long, S.P.**, Gordon, S.M., Seward, G.G.E., Agustsson, K.S., and Zeiger, K.J., 2014, Deformation temperature, kinematics, and internal strain during emplacement of Greater Himalayan rocks in north-central and northeastern Bhutan: Eos Trans., American Geophysical Union 95 (59), Fall Meet. Suppl., Abstract T21B-4596.
35. Anderson, R.B.\*, **Long, S.P.**, Horton, B.K., Calle, A.Z., and Stocki, D.F., 2014, New apatite and zircon (U-Th)/He constraints on the timing of thrust-related exhumation in the southern Bolivian (21°S) Andes: Eos Trans., American Geophysical Union 95 (59), Fall Meet. Suppl., Abstract T33B-4687.
34. Agustsson, K.M., Gordon, S.M., **Long, S.P.**, Seward, G.G.E., Zeiger, K.J., and Penfold, M.L.\*, 2014, Flattening of the Greater Himalayan zone within the eastern Himalaya: insights from pressure–temperature–structural distance trends from central and eastern Bhutan: Eos Trans., American Geophysical Union 95 (59), Fall Meet. Suppl., Abstract T21B-4599.
33. Gordon, S.M., Kauffman, R., Gonzales-Clayton, B., Kylander-Clark, A., Agustsson, K., and **Long, S.P.**, 2014, Along-strike variations in the timing of melt crystallization and metamorphism across central and eastern Bhutan: new insights from LASS monazite geochronology and trace-element abundances: Eos Trans., American Geophysical Union 95 (59), Fall Meet. Suppl., Abstract T13D-03.
32. Di Fiori, R.V.\*, **Long, S.P.**, Muntean, J.L., and Edmondo, G.P., 2014, Structural analysis of gold mineralization in the southern Eureka mining district, Nevada: a predictive structural setting for Carlin-type gold deposits: Geological Society of America Abstracts with Programs, Vol. 46, No. 6, p. 462. (**2<sup>nd</sup> place, Geological Society of America Best Student Map Competition, 2014 Annual Meeting**)
31. Calle, A.Z., Horton, B.K., **Long, S.P.**, Anderson, R.B.\*, and Ramirez, V., 2014, Shortening, exhumation, and sedimentation in the Andean thrust belt and foreland basin of southern Bolivia: Memorias del XXI Congreso Geológico Boliviano, Cochabamba, Bolivia, October 16-19, 2014.
30. Calle, A.Z., Horton, B.K., **Long, S.P.**, Ramirez, V., and Anderson, R.B.\*, 2014, Shortening, exhumation, and sedimentation in the fold-thrust belt and foreland basin system of southern Bolivia: Actas del XIX Congreso Geológico Argentino (Eds. Martino, Lira, Guerreschi, Baldo, Franzese, Krohling, Manassero, Ortega, and Pinotti), p. 1572-1573, Cordoba, Argentina.
29. Agustsson, K.S., Gordon, S.M., **Long, S.P.**, Seward, G.G.E., Zeiger, K.J., and Penfold, M.L.\*, 2013, Testing the channel flow model in the eastern Himalaya,



eastern Bhutan: insights from preliminary thermobarometric data: *Eos Trans.*, American Geophysical Union 94 (58), Fall Meet. Suppl., Abstract V51B-2651.

28. Zeiger, K.J., Gordon, S.M., **Long, S.P.**, Kylander-Clark, A., Agustsson, K., and Penfold., M.L.\*, 2013, Testing the driving forces for exhumation of the Greater Himalayan Sequence in northeast Bhutan: implications of split-stream U-Pb zircon geochronology: *Geological Society of America Abstracts with Programs*, Vol. 45., No. 7, p. 797.
27. **Long, S.P.**, Henry, C.D., Muntean, J.L., Edmondo, G.P., and Cassel, E.J., 2013, Early Cretaceous construction and pre-late Eocene extensional collapse of a structural culmination, Eureka, Nevada: implications for out-of-sequence deformation in the Sevier hinterland: *Geological Society of America Abstracts with Programs*, Vol. 45., No. 7, p. 825.
26. **Long, S.P.**, McQuarrie, N., Tobgay, T., Coutand, I., Cooper, F.J., Reiners, P.W., Wartho, J., and Hodges, K.V., 2012, Variable shortening rates in the Bhutan thrust belt: implications for strain partitioning in the eastern Himalayan-Tibetan orogenic system: *Eos Trans.*, American Geophysical Union 93 (57), Fall Meet. Suppl., Abstract T51F-2661.
25. **Long, S.P.**, 2011, Magnitude and spatial patterns of erosional exhumation in the Nevadaplano, eastern Nevada and western Utah: insights from a Paleogene paleogeologic map: *Eos Trans.*, American Geophysical Union 92 (56), Fall Meet. Suppl., Abstract T11B-2314.
24. McQuarrie, N., **Long, S.P.**, Tobgay, T., and Nesbit, J.N., 2011, Documenting basin scale, geometry and provenance through detrital geochemical data: lessons from Neoproterozoic to Ordovician strata of Bhutan: *Eos Trans.*, American Geophysical Union 92 (56), Fall Meet. Suppl., Abstract T13F-2470.
23. Rodgers, D.W., and **Long, S.P.**, 2011, Creation and collapse of the northern Cache-Pocatello culmination, southeastern Idaho: *Eos Trans.*, American Geophysical Union 92 (56), Fall Meet. Suppl., Abstract T11B-2313.
22. Corrie, S.L., Kohn, M.J., **Long, S.P.**, McQuarrie, N., and Tobgay, T., 2011, P-T data from central Bhutan imply distributed extensional shear at the Black Mountain "klippe": *Eos Trans.*, American Geophysical Union 92 (56), Fall Meet. Suppl., Abstract T21A-2307.
21. Lewis, R.S., Link, P.K., Stanford, L.R., and **Long, S.P.**, 2011, A new state geologic map of Idaho: *Geological Society of America Abstracts with Programs*, Vol. 43, No. 4, p. 84.
20. **Long, S.P.**, McQuarrie, N., Tobgay, T., Grujic, D., and Hollister, L., 2010, A new 1:500,000-scale geologic map of Bhutan: a detailed view of eastern Himalayan

stratigraphy and structural geometry: *Eos Trans.*, American Geophysical Union, 91(55), Fall Meet. Suppl., Abstract T43B-2176.

19. McQuarrie, N., **Long, S.P.**, Tobgay, T., Reiners, P., and Coutand, I., 2010, Tracking burial, displacement and exhumation in the Lesser Himalayas, eastern Bhutan: *Eos Trans.*, American Geophysical Union, 91(55), Fall Meet. Suppl., Abstract T43B-2198.
18. Tobgay, T., McQuarrie, N., and **Long, S., P.**, 2010, Constraining age and rate of the Main Central Thrust displacement in western Bhutan: *Eos Trans.*, American Geophysical Union, 91(55), Fall Meet. Suppl., Abstract T43B-2184.
17. **Long, S.P.**, McQuarrie, N., Tobgay, T., and Reiners, P.W., 2010, Preliminary timing constraints on Lesser Himalayan duplex development from zircon (U-Th)/He thermochronometry, eastern Bhutan: Geological Society of America Abstracts with Programs, Vol. 42., No. 5, p. 665.
16. McQuarrie, N., Leier, A., and **Long, S. P.**, 2010, Exhumation, subsidence, sedimentation and evacuation: linking surface processes to mantle geodynamics in the Andean plateau: Geological Society of America Abstracts with Programs, Vol. 42., No. 5, p. 183.
15. **Long, S.P.**, McQuarrie, N., and Tobgay, T., 2010, Internal strain and deformation temperature of Lesser Himalayan thrust sheets, Bhutan: *in* Leech, M.L., Klemperer, S.L., and Mooney, W.D., eds., Proceedings for the 25<sup>th</sup> Himalaya-Karakoram Tibet Workshop, San Francisco, California, U.S.A.: U.S. Geological Survey, Open-File Report 2010-1099, 2 p., <http://pubs.usgs.gov/of/2010-1099/long/>.
14. McQuarrie, N., and **Long S.P.**, 2010, Magnitude of strain in a low-grade Greater Himalayan section, central Bhutan: implications for channel flow: *in* Leech, M.L., Klemperer, S.L., and Mooney, W.D., eds., Proceedings for the 25<sup>th</sup> Himalaya-Karakoram Tibet Workshop, San Francisco, California, U.S.A.: U.S. Geological Survey, Open-File Report 2010-1099, 2 p., <http://pubs.usgs.gov/of/2010-1099/mcquarrie/>
13. Whynot, N., Grujic, D, **Long, S.**, and McQuarrie, N., 2010, Apparent temperature gradient across the Lesser Himalayan Sequence: Raman spectroscopy on carbonaceous material in the eastern Bhutan Himalaya: *in* Leech, M.L., Klemperer, S.L., and Mooney, W.D., eds., Proceedings for the 25<sup>th</sup> Himalaya-Karakoram Tibet Workshop, San Francisco, California, U.S.A.: U.S. Geological Survey, Open-File Report 2010-1099, 2 p., <http://pubs.usgs.gov/of/2010-1099/whynot/>
12. **Long, S.**, McQuarrie, N., Tobgay, T., and Grujic, D., 2009, Crustal shortening in the Himalayan fold-thrust belt, eastern and central Bhutan: *Eos Trans.*, American Geophysical Union, 90(54), Fall Meet. Suppl., Abstract T43C-2125.

11. Tobgay, T., McQuarrie, N., and **Long, S.**, 2009, Metamorphic grade of the Paro Formation, western Bhutan and its implications: *Eos Trans.*, American Geophysical Union, 90(54), Fall Meet. Suppl., Abstract T43C-2126.
10. **Long, S.P.**, and McQuarrie, N., 2009, Placing limits on channel flow: is central Bhutan STD-free?: *Geological Society of America Abstracts with Programs*, Vol. 41, No. 7, p. 586.
9. Dixon, I.T.E., Leier, A.L., McCartney, T., McQuarrie, N., and **Long, S.P.**, 2009, Exploring the relationship between upper crustal deformation, sedimentation, and surface uplift in the Altiplano of the Central Andes, Bolivia: *Geological Society of America Abstracts with Programs*, Vol. 41, No. 7, p. 657.
8. **Long, S.P.**, McQuarrie, N., Tobgay, T., Gehrels, G., and Grujic, D., 2008, Tectonostratigraphy of the Lesser Himalaya of Bhutan: Deducing the Paleostratigraphy of the Northern Indian Margin: *Eos Trans.*, American Geophysical Union, 89(53), Fall Meet. Suppl., Abstract T31E-07.
7. Tobgay, T., McQuarrie, N., Hollister, L., **Long, S.**, and Gehrels, G., 2008, The Paro Formation provenance and its tectonometamorphic history, Bhutan Himalaya: *Eos Trans.*, American Geophysical Union, 89(53), Fall Meet. Suppl., Abstract T15-2044.
6. **Long, S.P.**, McQuarrie, N., Tobgay, T., and Gehrels, G., 2007, Preliminary stratigraphy and structure of the Lesser Himalayan portion of the Himalayan fold-thrust belt, eastern Bhutan: *Eos Trans.*, American Geophysical Union, 88(52), Fall Meet. Suppl., Abstract T23D-1649.
5. Leier, A., **Long, S.P.**, and McQuarrie, N., 2006, Oligo-Miocene deposition along the eastern margin of the Altiplano plateau, Salla, Bolivia: *Eos Trans.*, American Geophysical Union, 87(52), Fall Meet. Suppl., Abstract T33C-0527.
4. **Long, S.P.**, Leier, A., and McQuarrie, N., 2006, New Constraints on the Temporal and Spatial Evolution of the Central Andean Huarina Backthrust Belt South of La Paz, Bolivia: *Geological Society of America Abstracts with Programs*, Vol. 38, No. 7, p. 414.
3. **Long, S.P.**, Link, P.K., Janecke, S.U., Perkins, M.E., and Fanning, C.M., 2005, Multiple phases of tertiary extension and synextensional deposition in an evolving supradetachment basin, Malad Range, Southeast Idaho: *Geological Society of America Abstracts with Programs*, Vol. 37, No. 7, p. 204.
2. Janecke, S.U., Steely, A.N., Carney, S.J., and **Long, S.P.**, 2005, The Evolution of fold-prone supradetachment basins: examples of translation and breakup from Montana and SE Idaho: *Geological Society of America Abstracts with Programs*, Vol. 37, No. 7, p. 497.

1. **Long, S.P.**, Link, P.K., Rodgers, D.W., Janecke, S.U., and Perkins, M.E., 2004, Eocene to Recent normal faulting and syntectonic sedimentation, Henderson Creek quadrangle, Southeast Idaho: Geological Society of America Abstracts with Programs, Vol. 36, No. 4, p. 21.

***C. Non-reviewed publications and contract reports:***

3. **Long, S.**, and Rodgers, D., 2009, Chapter 1: Geology of the State of Idaho, *in* Winterfield, G.F., and Rapp, R.A., Survey of Idaho Fossil Resources, Volume 1: Introduction to the Geologic History of Idaho: BLM Professional Services Contract No. DLP050083, 64 p.
2. Geologic maps of the Rogers' Ruins, El Paso Canyon, and Surveyor's Canyon 7.5' quadrangles, Otero County, NM: New Mexico Bureau of Geology and Mineral Resources, Sacramento Mountains Mapping Project MWCD20. Published in: Newton, T., Timmons, S., Rawling, G., Frederick, P., Kludt, T., Land, L., Timmons, M., and Walsh, P., 2009, Sacramento Mountains Hydrogeology Study, New Mexico Bureau of Geology and Mineral Resources Open-File Report 518, 64 p., 2 plates.
1. Reports for Chevron Energy Technology Corporation, New Ventures Team, San Ramon, CA: 1) **Long, S.P.**, 2008, Tectonic and depositional setting of the upper Jurassic northern Tethyan margin; 2) **Long, S.P.**, 2008, Jurassic-Cretaceous tectonic and depositional setting of Egypt's Western Desert.

***D. Ph.D. Dissertation:***

**Long, S.P.**, 2010, The evolution of eastern Himalayan deformation: geometry and kinematics of the Himalayan fold-thrust belt, eastern and central Bhutan [Ph.D. Dissertation]: Princeton, Princeton University, 475 p., 51 figures, 13 tables, 3 plates.

*Advisor:*

Nadine McQuarrie (Princeton)

*Examining committee:*

Lincoln Hollister (Princeton), Adam Maloof (Princeton), Chris Andronicos (Cornell)

***E. M.S. Thesis:***

**Long, S.P.**, 2004, Geology of the Henderson Creek quadrangle, Oneida County, Idaho: multiple phases of Tertiary extension and deposition [Master's Thesis]: Pocatello, Idaho State University, 158 p., 31 figures, 3 tables, 2 plates.

*Advisors and examining committee:*

David Rodgers (Idaho State), Paul Link (Idaho State), Susanne Janecke (Utah State)

## Invited talks:

22. October 23, 2017 – New Perspectives on Cordilleran Tectonics, Paleogeography, and Metallogeny session, Geological Society of America annual meeting, Seattle, WA  
Title: “*Contractional deformation, paleogeography, and erosion in the Nevadaplano: lessons learned from subtracting Tertiary extension*”
21. February 17, 2016 – University of Nevada, Las Vegas, Geoscience Department Seminar Series  
Title: “*Creation and synorogenic collapse of a structural culmination in the Nevadaplano: Sevier giveth, gravity taketh away*”
20. January 29, 2016 – Central Washington University, Department of Geological Sciences, Seminar Series  
Title: “*Creation and synorogenic collapse of a structural culmination in the Nevadaplano: Sevier giveth, gravity taketh away*”
19. September 14, 2015 – Utah State University, Department of Geology, Distinguished Speaker Series  
Title: “*Creation and synorogenic collapse of a structural culmination in the Nevadaplano: Sevier giveth, gravity taketh away*”
18. September 11, 2015 – Washington State University, School of the Environment Geology Seminar Series  
Title: “*Creation and synorogenic collapse of a structural culmination in the Nevadaplano: Sevier giveth, gravity taketh away*”
17. May 18, 2015 – Geological Society of Nevada 2015 Symposium, Regional Geology and Metallogeny of the Great Basin session  
Title: “*Map pattern and style of regional-scale contractional deformation in the Sevier hinterland in eastern Nevada: insights from sub-volcanic paleogeologic maps*”
16. April 2, 2015 - Nevada Petroleum and Geothermal Society monthly meeting, Reno  
Title: “*A newly-defined fold province in eastern Nevada: a Valley and Ridge in the Basin and Range*”
15. October 2, 2014 – Bhutan Department of Geology and Mines, Thimpu, Bhutan  
Title: “*A summary of the 2012-2014 research of the University of Nevada, Reno group in eastern and central Bhutan*”
14. January 15, 2014 – University of Texas, Austin, Jackson School of Geosciences, Petrology, Geochemistry, Structure, & Tectonics talk series

Title: *“A record of shortening rates in the Himalayan thrust belt in Bhutan: integrating geochronology, thermochronology, deformation geometry, and kinematics”*

13. December 6, 2013 – University of Arizona Department of Geosciences weekly Cordilleran seminar  
Title: *“What can a mid-Tertiary unconformity tell us about deformation and erosion in the Nevadaplano?”*
12. December 5, 2013 – University of Arizona Department of Geosciences colloquium  
Title: *“A record of shortening rates in the Himalayan thrust belt in Bhutan: integrating geochronology, thermochronology, deformation geometry, and kinematics”*
11. November 21, 2013 – University of California, Berkeley, Department of Earth and Planetary Science department seminar  
Title: *“A record of shortening rates in the Himalayan thrust belt in Bhutan: integrating geochronology, thermochronology, deformation geometry, and kinematics”*
10. November 20, 2013 – University of California, Davis, Department of Earth and Planetary Science seminar series  
Title: *“A record of shortening rates in the Himalayan thrust belt in Bhutan: integrating geochronology, thermochronology, deformation geometry, and kinematics”*
9. May 2, 2013 - Nevada Petroleum and Geothermal Society monthly meeting, Reno, NV  
Title: *“What can the mid-Tertiary unconformity tell us about deformation and erosion in the Nevadaplano?”*
8. November 15, 2012 – California Institute of Technology, Division of Geological and Planetary Sciences, geology club seminar  
Title: *“What can the mid-Tertiary unconformity tell us about deformation and erosion in the Nevadaplano?”*
7. September 24, 2012 - University of Nevada, Reno, Department of Geological Sciences seminar series  
Title: *“What can the mid-Tertiary unconformity tell us about deformation and erosion in the Nevadaplano?”*
6. February 2, 2012 – Bhutan Department of Geology and Mines, Thimpu, Bhutan  
Title: *“A summary of the work of the Princeton Group, 2007-2011, part 1: stratigraphy, depositional age constraints, and the new geologic map of Bhutan”*
5. November 16, 2011 – University of Nevada, Las Vegas, Geoscience Department seminar series

- Title: “*Spatial patterns of internal strain and deformation temperature in the Himalayan fold-thrust belt, Bhutan*”
4. May 2, 2011 – University of Nevada, Reno, Department of Geological Sciences seminar series  
Title: “*Spatial patterns of internal strain and deformation temperature in the Himalayan fold-thrust belt, Bhutan: Implications for the development of strain in thrust sheets*”
  3. March 9, 2011 – Idaho State University Department of Geosciences colloquium  
Title: “*Spatial patterns of internal strain and deformation temperature in the Himalayan fold-thrust belt, Bhutan*”
  2. February 28, 2011 – Boise State University Department of Geosciences seminar  
Title: “*Spatial patterns of internal strain and deformation temperature in the Himalayan fold-thrust belt, Bhutan*”
  1. November 4, 2010 – Nevada Petroleum Society monthly meeting, Reno, NV  
Title: “*Constructing the Himalayan fold-thrust belt: a view from Bhutan*”

### **Funding awarded:**

2017 - \$17,127 – USGS EdMap program

**PI: Long** (WSU)

Project title: Structural analysis of the McClure Spring syncline, Pancake Range, Nevada: characterizing the style and timing of contractional deformation in the Sevier hinterland.

2016 - \$596,788 – National Science Foundation Major Research Instrumentation program, EAR-1626670

PI: Jeffrey Vervoort (WSU), co-PI: John Wolff (WSU), **co-PI: Long** (WSU), co-PI Erin Thornton (WSU), co-PI Brian Kennedy (University of Idaho)

Project title: MRI: Acquisition of a laser-ablation, multi-collector ICP-MS for research and training in Earth, Environmental, and Anthropological Sciences.

2015 - \$117,000 – National Science Foundation Tectonics program, EAR-1524765

Lead PI: Kathryn Snell (UC-Boulder - \$141,010), **PI: Long** (WSU), PI: Joshua Bonde (UNLV - \$131,000)

Project title: Collaborative Research: The record of Early Cretaceous growth of the Nevadaplano from syn-orogenic deposits of the Sevier hinterland.

2014 - \$15,068 – Makoil, Inc.

**PI: Long** (UNR)

Project title: Analysis of the thermal history of the central Grant Range: testing models for development of Railroad Valley petroleum systems.

- 2013 - \$39,216 – USGS Statemap program, agreement no. G13AC00235  
**PI: Long** (UNR)  
Project title: Northern Grant Range mapping project: evaluating structural models for the Grant Canyon and Bacon Flat oil fields.
- 2013 - \$123,000 – National Science Foundation Tectonics program, EAR-1250510.  
**Lead PI: Long** (UNR), PI: Brian Horton (UT-Austin - \$130,500)  
Project title: Collaborative Research: Thrust belt response to rapid surface uplift of the Altiplano: A field test of Cordilleran cyclicity in southern Bolivia.
- 2012 - \$46,000 – Timberline Resources, Corporation  
**PI: Long** (UNR)  
Project title: Focused geologic mapping and structural analysis in the southern Eureka mining district: testing structural models of mineralization.
- 2012 - \$392,960 – National Science Foundation Tectonics program, EAR-1220300  
**Lead PI: Long** (UNR), total split evenly with co-PI Stacia Gordon (UNR).  
Project title: Did channel flow drive the thermo-mechanical evolution of the eastern Himalaya? A field-based test in northeast Bhutan.
- 2012 - \$14,317 – University of Nevada, Reno, College of Science  
**Lead PI: Long** (UNR), co-PI Stacia Gordon (UNR).  
Project title: Funding for purchase of mineral separation equipment.
- 2011 - \$61,213 – USGS Statemap program, agreement no. G11AC20244  
**Lead PI: Long** (UNR), co-PI John Muntean (UNR), co-PI Chris Henry (UNR).  
Project title: South Eureka mining district mapping project: understanding connections between tectonics, magmatism, and gold deposits.
- 2010 - \$45,000 - Timberline Resources, Corporation  
**Lead PI: Long** (UNR), co-PI John Muntean (UNR), co-PI Chris Henry (UNR).  
Project title: Geologic framework of the southern Eureka mining district.
- 2009 - \$2,310 – Geological Society of America graduate student research grant  
**PI: Long.**  
Project title: Convergence partitioning in the eastern Himalaya: the role of the Bhutan fold-thrust belt.

### **Awards:**

- 2013 – Charles J. Mankin Memorial Award, for co-authorship on Geologic Map of Idaho  
2010 – Arnold Guyot Teaching Award, Princeton University  
2000 – NASA Space Grant for Idaho scholarship, The College of Idaho  
2000 – Glenn D. Weed Memorial Scholarship, The College of Idaho  
1999 – Ralph and Merle Kyle Mathematics Scholarship, The College of Idaho



**Professional societies:**

Geological Society of America (GSA): 2004-present  
American Geophysical Union (AGU): 2006-present  
Nevada Petroleum and Geothermal Society (NPGS): 2011-2015  
Geological Society of Nevada (GSN): 2011-2015  
American Association of Petroleum Geologists (AAPG): 2001

**Teaching experience:** 22 college semesters, 73 credits total**Washington State University:** five semesters as an associate professor:

Summer 2017: GEOL 408 – Field Geology (3 credits)  
Spring 2017: GEOL 340 – Structural Geology (4 credits)  
                  GEOL 498/598 – Geology Seminar (1 credit)  
Fall 2016: GEOL 541 – Orogenic Systems (3 credits)  
Spring 2016: GEOL 340 – Structural Geology (4 credits)

**University of Nevada, Reno:** six semesters as an assistant professor:

Summer 2015: GEOL 451 – Summer Field Camp (6 credits) – served as Director  
Summer 2014: GEOL 451 – Summer Field Camp (6 credits) – served as Director  
Summer 2013: GEOL 451 – Summer Field Camp (6 credits) – served as Director  
Summer 2012: GEOL 451 – Summer Field Camp (3 credits) – taught half of course  
Spring 2012: GEOL 701A – Balanced Cross-Sections (2 credits)  
Fall 2011: GEOL 731 – Orogenic Systems (3 credits)

**Princeton University:** four semesters as a teaching assistant during Ph.D. program:

Fall 2009: ENV 399 – Environmental Decision Making (1 credit)  
                  ENV 499 – Environmental Change, Poverty and Conflict (1 credit)  
Spring 2009: GEO 210 – Earthquakes, Volcanoes, and Other Hazards laboratory (1  
                  credit, 2 sections)  
Spring 2008: GEO 210 – Earthquakes, Volcanoes, and Other Hazards laboratory (1  
                  credit, 1 section)  
Fall 2007: GEO 235 – The Physical Earth laboratory (1 credit, 1 section)

**Idaho State University:** three semesters as an adjunct instructor:

Spring 2006: GEOL 1101 – Physical Geology (3 credits)  
                  GEOL 1100 – Geology and Human Affairs (3 credits)  
                  GEOL g4409 – Remote Sensing laboratory (1 credit)  
Fall 2005: GEOL 1101 – Physical Geology (3 credits)  
                  GEOL 1110 – Physical Geology laboratory (1 credit, 2 sections)  
                  GEOL g4402 – Geomorphology laboratory (1 credit)  
Summer 2005: GEOL 1100 – Geology and Human Affairs (3 credits)

**Idaho State University:** three semesters as a teaching assistant during M.S. program:

Spring 2004: GEOL 1110 – Physical Geology laboratory (1 credit, 1 section)  
                  GEOL 4421 – Structural Geology laboratory (1 credit)  
Spring 2003: GEOL 1110 – Physical Geology laboratory (1 credit, 2 sections)  
                  GEOL 4421 – Structural Geology laboratory (1 credit)  
Fall 2002: GEOL 1110 – Physical Geology laboratory (1 credit, 3 sections)

**University of Idaho:** one semester as a teaching assistant during undergraduate work:  
Spring 2002: GEOL 101L - Physical Geology laboratory (1 credit, 2 sections).

### **Mentoring experience:**

2017-: Senior thesis advisor to Connor Mullady (WSU B.S. student – degree in progress).  
2016-: Senior thesis advisor to Austin Stout (WSU B.S. student – degree in progress).  
2016-: Primary advisor to Jesslyn Starnes (WSU Ph.D. student – degree in progress).  
2016-: Primary advisor to Russell Di Fiori (WSU Ph.D. student – degree in progress).  
2015-: Co-advisor to Laura Pianowski (WSU M.S. student – degree in progress).  
2013-: Primary advisor to Ryan Anderson (WSU Ph.D. student – degree in progress).  
2012-2014: Primary advisor to Melissa Penfold (UNR M.S. student, completed 2014).  
          Thesis: Penfold, M.L., 2014, Microstructural analysis of Greater Himalayan rocks in northern Bhutan: [Master's Thesis]: Reno, University of Nevada, 93 p., 23 figures.  
2012-2014: Primary advisor to Russell Di Fiori (UNR M.S. student, completed 2014).  
          Thesis: Di Fiori, R.V., 2014, Focused geologic mapping and structural analysis of the southern Eureka mining district; assessing structural controls and spatial patterns of mineralization [Master's Thesis]: Reno, University of Nevada, 71 p., 14 figures, 1 plate.  
2009: Mentor for Chris Hepburn (Princeton undergraduate) Junior Independent Work Paper: "The internal strain and deformation of Bhutan"  
2008: Mentor for Natasha Lavdovsky (Princeton undergraduate) Junior Independent Work Paper: "Finite strain in the Pennsylvania Appalachians"

### **Service:**

#### **Journal editing:**

2015-present: Associate Editor, American Geophysical Union journal *Tectonics*.

#### **Graduate student committees:**

2017-: Shaina Cohen (Boise State University Ph.D.) – degree in progress  
2017-: Gilbert Ching (WSU M.S.)  
2016-: Austin Green (WSU Ph.D.) – degree in progress  
2016-: Da Wang (WSU Ph.D.) – degree in progress  
2016-: Somiddho Bosu (University of Alabama Ph.D.) – degree in progress  
2016-: Clay McDonie (WSU M.S.) – degree in progress  
2016-: Andrew Canada (University of Idaho Ph.D.) – degree in progress  
2016-: Daniel Gurganus (WSU M.S.) – degree in progress  
2016-2017: Alex Johnson (WSU M.S.)

2014-2016: Carolina Zamora (UNR M.S.)  
2014-2016: Jesse Walters (Boise State University M.S.)  
2012-2015: Gwen Linde (UNR Ph.D.)  
2012-2014: Kenjo Agustsson (UNR M.S.)  
2012-2014: Kate Zeiger (UNR M.S.)  
2012-2013: Kyle Gray (UNR M.S.)  
2011-2014: Jack Rigsbee (UNR M.S.)  
2010-2012: Jonathan Payne (UNR M.S.).

**Department-level committees:**

2016-2017: WSU School of the Environment geology revitalization committee  
2015-2016: WSU School of the Environment undergraduate studies committee  
2015: UNR NBMG neotectonic geologist faculty search committee  
2014: UNR NBMG economic geologist faculty search committee  
2013: UNR NBMG personnel committee  
2012-2013: UNR DGSE geological engineering faculty search committee (2 positions)  
2012: UNR NBMG personnel committee  
2011-2012: UNR DGSE geological engineering faculty position search committee

**University-level committees:**

2013-2014: UNR College of Science instrumentation committee

**Other committees:**

2016-: Idaho Geological Survey geological mapping advisory committee

**Article and proposal reviewing:**

2017: 2 journal articles (Gondwana Research, Palaeo 3) and 2 proposals (NSF Tectonics)  
2016: 3 journal articles (Geology, Tectonics, Geosphere) and 1 proposal (NSF Tectonics)  
2015: 5 journal articles (Earth and Planetary Science Letters, Tectonics, International Journal of Earth Sciences, Rocky Mountain Geology, Geological Society of Nevada) and 1 proposal (American Chemical Society-Petroleum Research Fund)  
2014: 8 journal articles (Tectonics, Earth and Planetary Science Letters, Precambrian Research, Terra Nova) and 1 proposal (NSF Tectonics)  
2013: 5 journal articles (GSA Bulletin, Tectonics, Precambrian Research, Journal of Maps) and 3 proposals (NSF Geophysics, NSF Tectonics)  
2012: 5 journal articles (Geology, Tectonics, Journal of Maps)  
2011: 1 proposal (NSF Tectonics)

**Conference session chairing:**

2015: Co-chair of “Regional Geology” session at the Geological Society of Nevada Symposium, Reno, NV  
2014: Co-chair of “Mesozoic Paleogeography of the North American Cordillera” session at the Joint Rocky Mountain/Cordilleran Geological Society of America meeting, Bozeman, MT

**Other:**

2014: Attended UNR DGSE retreat “Building Strong Departments”  
2013-2015: Director, University of Nevada, Reno, Summer Field Camp

**Field work:**

June, 2017 (1 week):	Fish Creek and Pancake Ranges, eastern Nevada
Oct., 2016 (3 weeks):	Eastern Himalaya, Bhutan
July, 2016 (1 week):	Diamond and Fish Creek Ranges, eastern Nevada
Oct., 2014 (3 weeks):	Eastern Himalaya, Bhutan
Sept.-Nov., 2013 (5 weeks)	Grant Range, eastern Nevada
July-Aug., 2013 (3 weeks)	Central Andes, Bolivia
Feb.-Mar., 2013 (4 weeks)	Eastern Himalaya, Bhutan
May-Sept., 2012 (5 weeks)	Diamond and Fish Creek Ranges, eastern Nevada
Feb.-Mar., 2012 (5 weeks)	Eastern Himalaya, Bhutan
June-Aug., 2011 (9 weeks)	Diamond and Fish Creek Ranges, eastern Nevada
Oct., 2010 (1 week)	Diamond and Fish Creek Ranges, eastern Nevada
April-May, 2010 (9 weeks)	Eastern Himalaya, Bhutan
Sept.-Nov., 2008 (13 weeks)	Eastern Himalaya, Bhutan
Aug., 2007 (3 weeks)	Gardner Canal, British Columbia Coast Range
April-June, 2007 (12 weeks)	Eastern Himalaya, Bhutan
July-Aug., 2006 (4 weeks)	Sacramento Mountains, southern New Mexico
June, 2006 (3 weeks)	Central Andes, Bolivia
Sept.-Oct., 2005 (2 weeks)	Bannock Range, southeast Idaho
June-Oct., 2003 (9 weeks)	Malad Range, southeast Idaho