CURRICULUM VITAE

James F. Dolan
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EDUCATION:

University of California, Santa Cruz
Ph. D. in Earth Sciences, August 1988
Committee Chair: J. Casey Moore
University of California, Davis
B. S. in Geology, December 1981

PROFESSIONAL EXPERIENCE:

Professor of Earth Sciences
Department of Earth Sciences. University of Southern California
2007-present
Geological Consultant
Metro Rail Sepulveda Transit Corridor Fault Evaluation Panel
2021-current
Member of the Planning Committee of the Southern California Earthquake Center
2006-2012
Co-Leader of Geology Disciplinary Group Southern California Earthquake Center
2006-2012
Geological Consultant
Metro Rail Westside Subway Extension Project, Los Angeles, CA
2010-2020
Geological Consultant
Seismic source characterization for the San Onofre Nuclear Generating Station
2011-2012
Member of GeoEarthScope LiDAR Working Group, and Science Coordinator for GeoEarthScope LiDAR 2008 acquisition (southern & eastern California regions)
2006-2009
Associate Professor of Earth Sciences
Department of Earth Sciences, University of Southern California
2002-2006
Member of the Coordinating Board of the Southern California Integrated Geodetic Network (SCIGN)
2003-2005
Recipient of "Excellence in General Education Teaching" Award (USC College of Letters, Arts, and Sciences) 2001-2002 School Year
Assistant Professor of Earth Sciences
Department of Earth Sciences, University of Southern California
1996-2002

Member of Board of Directors of the Southern California Earthquake Center
University of Southern California, 1996-2000

Co-Convener
Geological Society of America Penrose Conference on "Subduction to Strike-Slip Transition Zones", held at Puerto Plata, Dominican Republic, January 1999

Co-Chief Scientist
R/V Maurice Ewing (Lamont-Doherty Earth Observatory)
HMR-1 side-scan sonar/single-channel seismic-reflection study of the aftermath diachronous Greater Antilles-Bahamas collision eastern Hispaniola-Puerto Rico
June-July 1996 (28 days)

Research Assistant Professor
Department of Earth Sciences, University of Southern California
February 1996-August 1996

Research Associate
Department of Earth Sciences, University of Southern California
October 1994-January 1996

Staff Scientist
Seismological Laboratory, Caltech
Paleoseismology, tectonic geomorphology, and seismic hazard assessment of active structures beneath metropolitan Los Angeles
April 1994-September 1994

Post-Doctoral Research Fellow
Seismological Laboratory, Caltech
1991-1994

Geological Consultant
MetroRail Red Line Subway Project, Los Angeles, CA
March 1992-May 1993

Visiting Scholar
Stanford University
August 1990-March 1991

Post-Doctoral Research Associate
Lamont-Doherty Geological Observatory (Columbia University), Palisades, NY
Marine geophysical study (side-scan sonar/seismic reflection) of the sedimentary and tectonic effects of the active Hispaniola-Bahamas collision
January 1990-January 1991

Visiting Assistant Professor, San Francisco State University
Senior-level course in Structural Geology
Fall 1990

Co-Chief Scientist
R/V Moana Wave Leg 8908, SeaMARC II/ seismic-reflection study of the Hispaniola-Bahamas collision zone
June-July 1989 (27 days)

Post-Doctoral Research Associate
Branch of Pacific Marine Geology, U. S. Geological Survey, Menlo Park, CA
September 1988-January 1990

Graduate Research Assistant
University of California, Santa Cruz
July 1984-August 1988
Geologic field work on Paleogene sedimentary basinal rocks in the Dominican Republic, Puerto Rico, and Haiti--Eight months total between 1/84 and 3/90

Shipboard Sedimentologist
R/V JOIDES Resolution, Ocean Drilling Program Leg 110
Sedimentologic and structural studies of the northern Barbados accretionary prism
June-August 1986 (59 days)

Shipboard Scientist
R/V Conrad, SEABEAM mapping and heat-flow study of the Barbados forearc
March 1985 (17 days)

Field Geologist
British Petroleum-Alaska Exploration, North Slope, Alaska, Source rock evaluation in Cretaceous foreland basin deposits
June 1984-September 1984

Teaching Assistant
University of California-Santa Cruz
Geologic Field Mapping, Sedimentology & Stratigraphy (twice), and Sedimentary Petrology (twice)
September 1982-June 1984

Shipboard Sedimentologist
R/V Glomar Challenger, Deep Sea Drilling Project Leg 94, North Atlantic
Sedimentologic and paleoclimate studies of major north Atlantic sediment drift deposits
June 1983-August 1983 (60 days)

Geothermal Wellsite Geologist
ExLog/Smith, The Geysers, CA
January 1982-September 1982

PAPERS coming soon (In Review and In Preparation) (Abstracts excluded)(denotes student co-author under my primary supervision)(* denotes other student co-author):**

Fougere, D.M.**, Dolan, J.F., Ivester, A., McGill, S.F., Rhodes, E.J., Anthonissen, C.**, Gauriau, J.**, A latest Pleistocene-Holocene record of clustered earthquake recurrence on the Garlock fault at Koehn Lake: submitted to *Seismica* August 2025.

Anthonissen, C.J.**, Leon, L.A.**, Wolfe, F.*, Dolan, J.F., Shaw, J.H., Pratt, T.H., Rhodes, E.J., and Rittenouer, T., 2025 in review, Incremental slip rates of the Puente Hills blind thrust fault beneath metropolitan Los Angeles: Implications for seismic hazard and the kinematics of fold growth: submitted to *Journal of Geophysical Research - Solid Earth*, July 2025.

Gauriau, J.**, and Dolan, J.F., Consistent very large (≥10 m) displacements along the Kekerengu fault, New Zealand; Implications for megathrust behavior on the southern end of the Hikurangi subduction zone: to be submitted to *Seismica*, Fall 2025.

Gordon, L.**, Dolan, J.F., and Rhodes, E.J., Incremental slip rate record for the Mojave segment of the San Andreas fault: Implications for fault behavior and seismic hazard in southern California: to be submitted to be submitted the *Geophysical Research Letters*, Fall 2025.

Weigandt, C.K.**, Dolan, J.F., and Jordan, F., Paleoearthquake record and latest Pleistocene-Holocene slip-rate of the Cucamonga fault system: Implications for the recurrence of large-magnitude reverse fault earthquakes on the northern edge of the greater Los Angeles metropolitan area: to be submitted to *Seismica,* Fall 2025.

Fougere, D.M.**, Dolan, J.F., McGill, S.F., Rhodes, E.J., A combined paleo-earthquake age and incremental slip-rate record for the central Garlock fault over the past 14,000 years: Clustered earthquakes and alternating millennia-long periods of fast and slow slip: to be submitted to *Earth & Planetary Science Letters*, Fall 2025.

Gauriau, J.**, Dolan, J.F., Rhodes, E.J., and Rockwell, T.K., Holocene and late Pleistocene slip rates of the northern Elsinore fault at Glen Eden, southern California: to be submitted to *Seismica*, Fall 2025.

Anthonissen, C.J.**, Leon, L.A.**, Dolan, J.F., Shaw, J.H., Pratt, T.H., Rhodes, E.J., in prep., Paleoseismology of the Puente Hills Thrust fault: Evidence for large-magnitude, multi-segment ruptures directly beneath metropolitan Los Angeles: to be submitted to *Seismica*, Fall 2025.

Dolan, J.F., Lund, S., Zinke, R.**, and Barbot, S. Highly variable 10^4-year spreading rates on the East Pacific Rise over the last 800 ky: Implications for plate behavior and geodynamics: to be submitted to *Nature Geoscience, Fall 2025*.

Anthonissen, C.J.**, Zinke, R., and Dolan, J.F., Dating of alluvial fans by surface reflectance imaged with AVIRIS and EMIT spectroscopy: To be submitted to *Geophysical Research Letters* Winter 2026.

PUBLICATIONS (Abstracts excluded)(denotes student co-author under my primary supervision)(* denotes other student co-author):**

Milliner, C., Avouac, J.-P., Dolan, J.F., and Hollingsworth, J., 2025, Localization of inelastic strain with fault maturity and effects on earthquake characteristics: *Nature Geoscience*, https://doi.org/10.1038/s41561-025-01752-x.

Fougere, D.M.**, Dolan, J.F., Rhodes, E.J., and McGill, S.F., 2024, Refined Holocene Slip Rate for the Western and Central Segments of the Garlock Fault: Record of Alternating Millennial-Scale Periods of Fast and Slow Fault Slip: *Seismica*, v. 3, https://doi.org/10.26443/seismica.v3i2.1202

Cawood, T.K., and Dolan, J.F., 2024, An exploration of potentially reversible controls on millennial-scale variations in the slip rate of seismogenic faults: Linking structural observations with variable earthquake recurrence patterns: *Seismica*, *doi:10.26443/seismica.v3i2.1165*

Dolan, J.F., Van Dissen, R.J., Rhodes, E.J., Zinke, R.**, Hatem, A.E.**, McGuire, C.*, Langridge, R.M., and Grenader, J.R.**, 2024, One tune, many tempos: Faults trade off slip in time and space to accommodate relative plate motions: *Earth & Planetary Science Letters*, https://doi.org/10.1016/j.epsl.2023.118484

Gauriau, J.**, and Dolan, J.F., 2024, Comparison of geodetic slip-deficit and geologic fault slip rates reveals that variability of elastic strain accumulation and release rates on strike-slip faults is controlled by relative structural complexity of plate-boundary fault systems: *Seismica*, https://doi.org/10.26443/seismica.v3i1.1119

Gauriau, J.**, Barbot, S., and Dolan, J.F., 2023, Islands of chaos in a sea of periodic earthquakes: *Earth & Planetary Science Letters*, v. 618, https://doi.org/10.1016/j.epsl.2023.118274

Authors

Ivester, A.H., Rhodes, E.J., Dolan, J.F., Van Dissen, R.J., Gauriau, J.**, Little, T., McGill, S.F., and Tuckett, P.J.*, 2022, A method to evaluate the degree of bleaching of IRSL signals in feldspar: The 3ET method: *Quaternary Geochronology*, v. 72, https://doi.org/10.1016/j.quageo.2022.101346

Gauriau, J.**, and Dolan, J.F., 2021, Relative structural complexity of plate-boundary fault systems controls incremental slip-rate behavior of major strike-slip faults: *Geochemistry, Geophysics, Geosystems*, v. 22 (11), e2021GC009938, https://doi.org/10.1029/2021GC009938

Zinke, R.**, Dolan, J.F., Rhodes, E.J., Van Dissen, R.J., Hatem, A.E.**, McGuire, C.P.*, Brown, N.A.*, Grenader, J.R.**, 2021, Latest Pleistocene–Holocene Incremental Slip Rates of the Wairau Fault: Implications for Long-Distance and Long-Term Coordination of Faulting Between North and South Island, New Zealand: *Geochemistry, Geophysics, Geosystems*, v. 22 (9), e2021GC009656, https://doi.org/10.1029/2021GC009656.

Bemis, S.P., Scharer, K., Dolan, J.F., 2021, The San Andreas Fault Paleoseismic Record at Elizabeth Lake: Why are There Fewer Surface-Rupturing Earthquakes on the Mojave Section? *Bulletin of the Seismological Society of America*, v. 111 (3), p. 1590-1613, https://doi.org/10.1785/0120200218

Milliner, C., Donnellan, A., Aati, S., Avouac, J-P., Zinke, R., Dolan, J.F., Wang, K., Bürgmann, R., 2021, Bookshelf Kinematics and the Effect of Dilatation on Fault Zone Inelastic Deformation: Examples From Optical Image Correlation Measurements of the 2019 Ridgecrest Earthquake Sequence: *JGR – Solid Earth*, v. 126 (3), e2020JB020551, https://doi.org/10.1029/2020JB020551.

Hatem, A.E.**, Dolan, J.F., Zinke, R.W.**, Langridge, R.M., McGuire, C.M.*, Rhodes, E.J., Brown, N.*, Van Dissen, R.J., 2020, Holocene to latest Pleistocene incremental slip rates from the east-central Hope fault (Conway segment) at Hossack Station, Marlborough fault system, South Island, New Zealand: Towards a dated path of earthquake slip along a plate boundary fault: *Geosphere*, v. 16 (6), p. 1558-1584, https://doi.org/10.1130/GES02263.1

Ponti, D.J., Blair, J.L., Rosa, C.M., Thomas, K., Pickering, A.J., … Dolan, J.F …et al. (77 total authors), 2020, Documentation of Surface Fault Rupture and Ground-Deformation Features Produced by the 4 and 5 July 2019 1019 Mw 6.4 and Mw 7.1 Ridgecrest Earthquake Sequence: *Seismological Research Letters*, v. 91 (5), p. 2942-2959, https://doi.org/10.1785/0220190322

DuRoss, C.B., Gold, R.D., Dawson, T.E., Scharer, K.M., Kendrick, K.J., … Dolan, J.F., … et al. (47 total authors), 2020, Surface displacement distributions for the July 2019 Ridgecrest, California, earthquake ruptures: *Bulletin of the Seismological Society of America*, v. 110 (4), p. 1400-1418, https://doi.org/10.1785/0120200058.

Van Dissen, R., Abbott, E., Zinke, R.**, Ninis, D., Dolan, J., Little, T., Rhodes, E., Litchfield, N., Hatem, A.**, 2020, Slip rate variations on major strike-slip faults in central New Zealand and potential impacts on hazard estimation: *Proceedings of the 2020 New Zealand Society for Earthquake Engineering Annual Technical Conference*, https://repo.nzsee.org.nz/handle/nzsee/1691.

Hatem, A.E.**, Dolan, J.F., Zinke, R.W.**, Van Dissen, R.J., McGuire, C.M.*, Rhodes, E.J., 2019, A 2000 Yr Paleoearthquake Record along the Conway Segment of the Hope Fault: Implications for Patterns of Earthquake Occurrence in Northern South Island and Southern North Island, New Zealand: *BSSA*, v. 109 (6), p. 2216-2239, https://doi.org/10.1785/0120180313.

Wolfe, F.D.*, Shaw, J.H., Plesch, A., Ponti, D.J., Dolan, J.F., Legg, M.R., 2019, The Wilmington Blind-Thrust Fault: An Active Concealed Earthquake Source beneath Los Angeles, California: *Bulletin of the Seismological Society of America*, v. 109 (5), p. 1890-1906, https://doi.org/10.1785/0120180335.

Zinke, R. W.**, Hollingsworth, J. C., Dolan, J. F., Van Dissen, R., 2019, Three-dimensional surface deformation in the 2016 M_W 7.8 Kaikōura, New Zealand earthquake from optical image correlation: Implications for strain localization and long-term evolution of the Pacific-Australian plate boundary: *Geochemistry,*

Geophysics, Geosystems, v. 20 (3), p. 1609-1628, https://doi.org/10.1029/2018GC007951.

Zinke, R. W.**, Dolan, J. F., Rhodes, E.J., Van Dissen, R.J., McGuire, C.P.*, Hatem, A.E.**, and Brown, N.D.*, 2019, Multimillennial incremental slip rate variability of the Clarence fault at the Tophouse Road site, Marlborough fault system, New Zealand: *Geophysical Research Letters*, v. 46 (2), p. 717-725, https://doi.org/10.1029/2018GL080688.

Hatem, A.**, and Dolan, J.F., 2018, A model for the initiation, evolution, and controls on seismic behavior of the Garlock fault, California: *Geochemistry, Geophysics, Geosystems*, v. 19, https://doi.org/10.1029/2017GC007349

Dolan, J. F. and Meade, B. J., 2017, A comparison of geodetic and geologic rates prior to large strike-slip earthquakes: A diversity of earthquake cycle behaviors?: *Geochemistry, Geophysics, Geosystems*, doi.org/10.1002/2017GC007014.

Zinke, R.**, Dolan, J.F., Rhodes, E.J., Van Dissen, R., and McGuire, C.P.*, 2017, Highly variable latest Pleistocene–Holocene incremental slip rates on the Awatere fault at Saxton River, South Island, New Zealand, revealed by lidar mapping and luminescence dating: *Geophysical Research Letters*, v. 44, doi:10.1002/2017GL075048.

Ellis, S., Van Dissen, R., Eberhart-Phillips, D., Reyners, M., Dolan, J.F., and Nicol, A., 2017, Detecting hazardous cryptic faults by mapping discontinuities at seismogenic depths: *Earth and Planetary Science*, doi.org/10.1016/j.epsl.2017.01.038

Langridge, R.M., Ries, W.F.*, Dolan, J. F., Schermer, E., and Siddoway, C., 2017, Slip rate estimates for the Alpine fault (Calf Paddock), New Zealand: *New Zealand Journal of Geology and Geophysics,* doi: 10.1080/00288306.2016.1275707.

Bergen, K.J.*, Shaw, J.H., Leon, L.A.**, Dolan, J.F., Pratt, T.L., Ponti, D.J., Morrow, E., Barerra, W.*, Rhodes, E.J., Murari, M.K., and Owen, L.A., 2017, Accelerating slip rates on the Puente Hills blind-thrust fault system beneath metropolitan Los Angeles, California: *Geology*.

De Vries, P.M.R.*, Krastev, P.G., Dolan, J.F., and Meade, B.J., 2017, Viscoelastic block models of the North Anatolian Fault System: A unified earthquake cycle representation of pre- and postseismic geodetic observations: *Bulletin of the Seismological Society of America*, v. 107, doi: 10.1785/0120160059.

Milliner, C.**, Dolan, J. F., Hollingsworth, J. C.#, Leprince, S., and Ayoub, F., 2016, Comparison of near-field and off-fault deformation patterns of the 1992 M_w = 7.3 Landers and 1999 M_w = 7.1 Hector Mine earthquakes: Implications for controls on distribution of surface strain: *Geophys. Res. Lett*., doi: 10.1002/2016GL069841.

Dolan, J.F., McAuliffe, L.J.**, Rhodes, E.J., McGill, S.F., and Zinke, R.**, 2016, Extreme multi-millennial slip rate variations on the Garlock fault, California: Strain super-cycles, potentially time-variable fault strength, and implications for system-level earthquake occurrence: *Earth & Planet, Sci. Lett.*, http://dx.doi.org/10.1016/j.epsl.2016.04.011

Milliner, C.**, Sammis, C., Allam, A.A., Dolan, J.F., Hollingsworth, J., Leprince, S., and Ayoub, F., 2016, The fractal nature of coseismic slip and the relation to fault structure: *Nature Scientific Reports,* 6:27201, DOI: 10.1038/srep27201.

Xu, X.*, Tong. X., Sandwell, D. T., Milliner, C.W.D.**, Dolan, J.F., Hollingsworth. J.#, Leprice, S., and Ayoub, F., 2016, Refining the magnitude of the shallow slip deficit: *Geophys. Jour. Intnl*., v. 204, p. 1867-1886, doi: 10.1093/gji/ggv563.

Zinke, R.**, Dolan, J. F., Van Dissen, R., Grenader, J. R.**, Rhodes, E. J., McGuire, C.P.*, Langridge, R., Nicol, A., and Hatem, A.**, 2015, Progressive geomorphic and structural manifestation of fault slip as a function of cumulative displacement: A comparison of the Wairau and Awatere faults, South Island, New Zealand: *Geology*, doi:10.1130/G37065.1, Data Repository item 2015341.

Frankel, K. L.** (deceased 2011), Owen, L.A., Dolan, J.F., Knott, J.R., Lifton, Z.*, Finkel, R.C., and Wasklewicz, T., 2015, Timing and rates of Holocene normal faulting along the Black Mountains fault zone, Death Valley: *Lithosphere,* doi:10.1130/L464.1.

McAuliffe, L.**, Dolan, J.F., Rhodes, E.J., Hubbard, J.F.*, Shaw, J.H., Pratt, T.L., 2015, Paleoseismologic evidence for large-magnitude (Mw≥7.5) earthquakes on the Ventura blind thrust fault: Implications for multi-fault ruptures in the Transverse Ranges of southern California: *Geosphere*, doi:10.1130/GES01123.1

Milliner, C.**, Dolan, J. F., Hollingsworth, J. C.#, Leprince, S., Ayoub, F., and Sammis, C.G., 2015, Quantifying near-field and off-fault deformation patterns of the 1992 M_w 7.3 Landers earthquake: *Geochemistry, Geophysics, Geosystems*, Doi 10.1002/2014GC005693.

Zinke, R. W.**, Hollingsworth, J. C., and Dolan, J. F., 2014, Surface slip and off-fault deformation patterns in the 2013 M_w 7.7 Balochistan, Pakistan earthquake: *Geochemistry, Geophysics, Geosystems*, doi: 10.1002/2014GC005538.

Dolan, J. F., and Haravitch, B. D.**, 2014, How well do surface slip measurements track slip at depth in large strike-slip earthquakes? The importance of structural maturity in controlling on-fault versus off-fault deformation: *Earth and Planetary Science Letters*, http://dx.doi.org/10.1016/j.epsl.2013.11.043.

Hubbard, J.*, Shaw, J. H. Dolan, J. F., Pratt, T. L., McAuliffe, L.**, and Rockwell, T. K., 2014, Structure and seismic hazard of the Ventura Avenue anticline and Ventura fault, California: Prospect for large, multi-segment ruptures in the Western Transverse Ranges: *Bulletin of the Seismological Society of America*, v. 104, p. 1070-1087, doi: 10.1785/0120130125.

Miller, M. S., Zhang, P.*, and Dolan, J. F., 2014, Moho structure across the San Jacinto fault zone: insights into strain localization at depth: *Lithosphere*, doi: 10.1130/L295.1.

McAuliffe, L.**, Dolan, J. F., Kirby, E., Rollins, C.**, Haravitch, B.**, Alm, S., and Rittenour, T. M., 2013, Paleoseismologic evidence for late Holocene earthquakes on the southern Panamint Valley fault zone: Implications for earthquake clustering in the Eastern California Shear Zone north of the Garlock fault: *Jour. Geophys. Res*., v. 118, 1-21, doi:10.1002/jgrb.50359.

Ganev, P.N.**, Dolan, J.F., McGill, S.F., and Frankel, K.L., 2012, Constancy of geologic slip rate along the central Garlock fault: Implications for strain accumulation and release in southern California: *Geophysical Journal International*, doi: 10.1111/j.1365X.2012.05494.x.

Madden Madugo, C.*, Dolan, J. F., and Hartleb, R. D.**, 2012, New paleoearthquake ages from the western Garlock fault: Implications for regional earthquake occurrence in southern California: *Bulletin of the Seismological Society of America*, v. 102, p. 2282-229, doi: 10.1785/0120110310.

Roder, B.*, Lawson, M.* Rhodes, E. J., Dolan, J. F., McAuliffe, L.**, and McGill, S., 2012, Assessing the potential of luminescence dating for fault slip rate studies on the Garlock fault, Mojave Desert, California, USA: *Quaternary Geochronology*, v. 10, p. 285-290, doi: 10.1016/j.quageo.2012.03.013.

Frost, E.**, Dolan, J. F., Ratschbacher, L., Hacker, B., and Seward, G., 2011, Direct observation of fault zone structure at the brittle-ductile transition along the Salzach-Ennstal-Mariazell-Puchberg fault system, Austrian Alps: *Jour. Geophys. Res*., v. 116, B02411, doi:10.1029/2010JB007719 116, B02411, doi:10.1029/2010JB007719, 2011.

Frankel, K. L.**, Dolan, J. F., Owen, L. A., Ganev, P.**, and Finkel, R. C., 2011, Spatial and temporal constancy of seismic strain release along an evolving segment of the Pacific-North America plate boundary: *Earth and Planetary Science Letters*, v. 304, p. 565-576.

Kozaci, Ö.**, Dolan, J. F., Yönlü, Ö, and Hartleb, R. D.**, 2011, Paleoseismologic evidence for the relatively regular recurrence of infrequent, large-magnitude earthquakes on the eastern North Anatolian fault at Yaylabeli, Turkey: *Lithosphere,* doi: 10.1130/L118.1

Owen, L. A., Frankel, K. L.**, Knott, J. R., Reynhout, S., Finkel, R. C., Dolan, J. F., and Lee, J., 2011, Beryllium-10 terrestrial cosmogenic nuclide surface exposure dating of landforms in Death Valley: *Geomorphology*, v. 125, p. 541-557, doi:10.1016/j.geomorph.2010.10.024

Ganev, P.N.**, Dolan, J.F., Frankel, K.L., and Finkel, R.C., 2010, Rates of extension along the Fish Lake Valley fault and transtensional deformation in the eastern California shear zone: *Lithosphere*, v. 2, p. 33-49; Data Repository 2009285, doi: 10.1130/L51.1.

Pratt, T. L., and Dolan, J. F., 2010, Comment on "Near-surface location, geometry, and velocities of the Santa Monica fault zone, Los Angeles, California": *Bulletin of the Seismological Society of America*, p. 2329-2337; doi: 10.1785/0120090142.

Ganev, P.N.**, Dolan, J.F., Oskin, M., Blisniuk, K.*, and Owen, L.A., 2010, Paleoseismologic evidence for multiple Holocene earthquakes on the Calico fault: Implications for earthquake clustering in the Eastern California Shear Zone: *Lithosphere*, v. 2; no. 4; p. 287–298; doi: 10.1130/L82.1; Data Repository 2010217.

Leon, L. A.**, Dolan, J. F., Shaw, J. H., and Pratt, T. L., 2009, Evidence for large-magnitude Holocene earthquakes on the Compton blind thrust fault, Los Angeles, California: *Jour. Geophys. Res*., doi: 10.1029/2008JB006129.

Frost, E.**, Dolan, J. F., Sammis, C. G., Hacker, B. R., Cole, J.*, and Ratschbacher, L., 2009, Progressive strain localization in a major strike-slip fault exhumed from mid-seismogenic depths: Structural observations from the Salzach-Ennstal-Mariazell-Puchberg fault system, Austria: *Jour. Geophys. Res*., 114, B04406, doi:10.1029/2008JB005763.

Elliott, A. J. **, Dolan, J. F., and D. D. Oglesby, 2009, Evidence from coseismic slip gradients for dynamic control on rupture propagation and arrest through stepovers: *Jour. Geophys. Res*., 114, B02313, doi:10.1029/2008JB005969.

Kozaci, Ö **, Dolan, J.F., and Finkel, R.C., 2009, Late Holocene slip rate for the central North Anatolian fault, Tahtakorpru, Turkey, from Cosmogenic ^{10}Be Geochronology: Implications for the constancy of fault loading and strain release rates: *Jour. Geophys. Res*., 114, doi:10.1029/2008JB005760, 2009.

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Frankel, K. L.**, Dolan, J. F., Finkel, R. C., Owen, L.A., and Hoeft, J.S.**, 2007a, Spatial variations in slip rate along the Death Valley-Fish Lake Valley fault system determined from LiDAR topographic data and cosmogenic ^{10}Be geochronology: *Geophysical Research Letters*, v. 34, L18303, doi:10.1029/2007GL030549.

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Leon, L. A.,**, Christofferson, S. A.**, Dolan, J. F., Shaw, J. H., and Pratt, T. L., 2007, Earthquake-by-earthquake fold growth above the Puente Hills blind thrust fault, Los Angeles, California: Implications for fold kinematics and seismic hazard: *Jour. Geophys. Res. – Solid Earth*, **112**, B03S03, doi:10.1029/2006JB004461.

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Thesis Committees for which I am/was chair:

Matthew Salinas Ph. D. Expected Fall 2029
Structural geology and paleoseismology of major reverse faults in southern and central California and development of new probabilistic seismic hazard assessment through the prism of system-level fault behavior

C. K. Weigandt** Ph. D. Expected Fall 2026
Using paleoseismology to understand system-level behavior of Pacific-North America plate boundary in southern California and use of those data in development of next-generation seismic hazard assessments strategies

Alexandra Hatem** Ph. D. Awarded 8-19
Slip rates and paleo-earthquakes ages on the Hope fault, New Zealand, and structural evolution and behavior of the Garlock fault, California

Robert Zinke** Ph. D. Awarded 12-18
Characterizing fault behavior and earthquake surface expression on time scales of single events to multiple-millennia

Chris Milliner** Ph. D. Awarded 8-17
Characterization of co-seismic surface deformation patterns in large continental earthquakes: Implications for rupture dynamics, seismic hazard assessment, and the structural evolution of faults

Jessica Grenader** MS. (switched from Ph. D. 2014) Awarded 8-16
Slip rates and paleo-earthquakes ages from the Wairau and Hope faults, New Zealand, using lidar digital topographic data and IR-IRSL^{225} age dating; Slip rates and paleo-earthquake ages from the Ventura blind thrust fault, California

Lee McAuliffe** Ph. D. Awarded 8-14
Constancy of seismic strain release and fault slip in eastern California

Ben Haravitch** MS. (switched from Ph. D. 2011) Awarded 12-11
Characterizing the "shallow slip deficit" in large earthquakes: Implications for the interpretation of geologic slip-rate data

Plamen Ganev** Ph. D. Awarded 8-11
ALSM Imagery, Cosmogenic radionuclide dating, and paleoseismology of active faults in the Eastern California Shear Zone

Lorraine Leon** Ph. D. Awarded 8-09
The paleoseismology of blind thrust faults

Erik Frost** Ph. D. Awarded 8-09
Direct observation of depth variation in fault zone structure through and below the seismogenic crust: Analysis of the SEMP fault system in Austria

Ozgur Kozaci** Ph. D. Awarded 12-07
Slip rates and paleoearthquake ages and displacements along the North and East Anatolian Faults, Turkey: Constancy of loading rates and seismic strain rates

Kurt Frankel** Ph. D. Awarded 6-07
Constancy of seismic strain release and loading rates in the Eastern California Shear Zone and southern Walker Lane

Ross Hartleb** Ph. D. Awarded 12-05
Paleoseismologic investigations of the North Anatolian Fault, Turkey: Towards a long-term history of patterns of strain release in time and space

Shari Christofferson** M. S Awarded 12-02
A standard methodology for analysis of blind thrust fault activity: Insights from excavations and high-resolution seismic reflection data

Kristin Weaver** M.S Awarded 12-99
Paleoseismology and fault interactions of the Raymond fault, northern Los Angeles, California, metropolitan region

Allan Tucker** M. S. Awarded 6-00
Paleoseismologic evidence for an early Holocene age of most recent surface rupture on the Sierra Madre fault: Implications for seismic hazard assessment in LA metropolitan region

Scott Marsic** M. S. Awarded 12-03
(advised jointly with Professor Susan Owen until May 2002)
InSAR Analysis of possible fault creep on the North Anatolian Fault, Ismetpasa, Turkey

<u>Other Recent Thesis Committees of which I was a member</u>

Tarryn Cawood (Primary Advisor: John Platt) Ph. D. Awarded 2021

Naomi Rodgers (Primary Advisor: John Platt) Ph. D. Awarded Fall 2023