

CURRICULUM VITAE

James F. Dolan

Department of Earth Sciences
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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

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
MetroRail Westside Subway Extension Project, Los Angeles, CA
2010-present

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

PUBLICATIONS (Abstracts excluded):

Papers in Review/Revision (denotes student co-author under my primary supervision):**

Zinke, R. W.**, Hollingsworth, J. C., Dolan, J. F., Van Dissen, R., in review 2018, 3D surface deformation in the 2016 Mw 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*, August 2018.

Zinke, R. W.**, Dolan, J. F., Rhodes, E.J., Van Dissen, R.J., McGuire, C.P.*, Hatem, A.E.**, and Brown, N.D.*, 2018 in review, , Multi-millennial incremental slip rate variability of the Clarence fault at the Tophouse Road site, Marlborough fault system, New Zealand: *Geophysical Research Letters*, September, 2018.

Publications in Journals and Books (abstracts excluded) (denotes student co-author under my supervision) (* denotes other student co-author) (# denotes post-doctoral researcher co-author under my supervision):**

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 (published online November 2016).

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.#, Leprince, S., and Ayoub, F., 2016, Refining the magnitude of the shallow slip deficit: *Geophys. Jour. Intl.*, 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 Hattem, 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 ($M_w \geq 7.5$) 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, Tahtakorpu, Turkey, from Cosmogenic ¹⁰Be Geochronology: Implications for the constancy of fault loading and strain release rates: *Jour. Geophys. Res.*, 114, doi:10.1029/2008JB005760, 2009.

Frankel, K.L., Glazner, A.F., Kirby, E., Monastero, F.C., Strane, M.D., Oskin, M.E., Unruh, J.R., Walker, J.D., Anandakrishnan, S., Bartley, J.S., Coleman, D.S., Dolan, J.F., Finkel, R.C., Greene, D., Kylander-Clark, A., Morrero, S., Owen, L.A., and Phillips, F., 2008, Active tectonics of the eastern California shear zone: *in* Dubendorfer, E. and Smith, G., eds., *Geologic excursions in the southern North America Cordillera: Geological Society of America Field Guide 11*, p. 43-81, doi: 10.1030/2008.fld011 (03).

Dolan, J. F., Bowman, D. D., and Sammis, C. G., 2007, Long-range and long-term fault interactions in southern California: *Geology*, v. 35, p. 855-858.

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

Kozaci, Ö**, Dolan, J. F., Finkel, R. C., and Hartleb, R. D.**, 2007, A 2000-year slip rate for the North Anatolian fault, Turkey, from cosmogenic ³⁶Cl geochronology: Implications for the constancy of fault loading and slip rates: *Geology*, v. 35, p. 867-870; doi:10.1130/G23187A.1.

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.

- Frankel, K. L.**, and Dolan, J. F., 2007, Characterizing arid-region alluvial fans with airborne laser swath mapping digital topographic data: *Jour. Geophys. Res. – Earth Surface*, doi:10.1029/2006JF000644.
- Dolan, J. F., and Avouac, J., 2007, Introduction to special section: Active Fault-Related Folding: Structural Evolution, Geomorphologic Expression, Paleoseismology, and Seismic Hazards, *Jour. Geophys. Res.*, 112, B03S01, doi:10.1029/2007JB004952.
- Frankel, K. L.**, Brantley, K.*, Dolan, J. F., Finkel, R. C., Klinger, R., Knott, J., Machette, M., Owen, L., Phillips, F., Slate, J. L., Wernicke, B., 2007, Cosmogenic ¹⁰Be and ³⁶Cl geochronology of offset alluvial fans along the northern Death Valley fault zone: Implications for transient strain in the eastern California shear zone: *Jour. Geophys. Res. – Solid Earth*, doi:10.1029/2006JB004350.
- Plesch, A., Shaw, J. H., Benson, C., Bryant, W. A., Carena, S., Cooke, M., Dolan, J. F., Fuis, G., Gath, E., Grant, L., Hauksson, E., Jordan, T., Kamerling, M., Legg, M., Lindvall, S., Magistrale, H., Nicholson, C., Niemi, N., Oskin, M., Perry, S., Planansky, G., Rockwell, T., Shearer, P., Sorlien, C., Süß, M. P., Suppe, J., Treiman, J., & Yeats, R., 2007, Community Fault Model (CFM) for Southern California: *Bulletin of the Seismological Society of America*, v. 97, p. 1793-1802, doi: 10.1785/0120050211.
- Cole, J.*, Hacker, B., Ratschbacher, L., Dolan, J., Seward, G., Frost, E.**, and Frank, W., 2007, Localized ductile shear below the seismogenic zone: Structural analysis of an exhumed strike-slip fault, Austrian Alps: *Jour. Geophys. Res.*, v. 112, doi:10.1029/2007JB004975, 2007.
- Dolan, J. F., 2006, “Greatness thrust upon them”: *Nature, News & Views*, v. 44, p. 276-279.
- Hartleb, R D.**, Dolan, J. F., Kozaci, Ö.**, Akyuz, S., and Seitz, G., 2006, A 2,500-year-long paleoseismologic record of large, infrequent earthquakes on the North Anatolian fault at Cukurcimen, Turkey: *Bulletin of Geological Society of America*, v. 118, p. 823-840.
- Grindlay, N. R., Mann, P., Dolan, J. F., and van-Gestel, J.-P.*, 2005, Neotectonics and subsidence of the northern Puerto Rico-Virgin Islands margin in response to oblique subduction of high-standing ridges: in Mann, P., ed., Active Tectonics and seismic hazards of Puerto Rico, the Virgin Islands, and offshore areas, *Geological Society of America Special Paper* 385, p. 31-60.
- Dolan, J. F., and Bowman, D. D., 2004, Tectonic and seismologic setting of the September 22, 2003 Puerto Plata, Dominican Republic, earthquake: Implications for earthquake hazard in northern Hispaniola: *Seismological Research Letters*, v. 75, p. 587-597.

Dolan, J. F., Christofferson, S.**, and Shaw, J. H., 2003, Recognition of paleoearthquakes on the Puente Hills blind thrust fault, Los Angeles, California: *Science*, v. 300, p. 115-118.

Hartleb, R.D.**, Dolan, J. F., Akyüz, S., and Yerli, B.*, 2003, A 2,000 year record of earthquake occurrence along the central North Anatolian fault, from trenches at Alayurt, Turkey: *Bulletin of the Seismological Society of America*, v. 93, p. 1935-1954.

Shaw, J. H., Plesch, A., Dolan, J. F., Pratt, T., and Fiore, P.*, 2002, Puente Hills blind-thrust system, Los Angeles basin, California: *Bulletin of the Seismological Society of America*, v. 92, p. 2946-2960.

Pratt, T. L., Shaw, J. H., Dolan, J. F., Christofferson, S.**, Williams, R. A., Odum, J. K. and Plesch, A., 2002, Shallow folding imaged above the Puente Hills blind-thrust fault, Los Angeles, California: *Geophysical Research Letters*, v. 29, 10.1029/2001GL014313, p. 18-1 to 18-4 (May 8, 2002).

Hartleb, R. D.**, Dolan, J. F., Akyüz, S., Dawson, T. E.*, Tucker, A. Z.**, Yerli, B.*, Rockwell, T. K., Toraman, E.*, Çakir, Z.*, Dikbas, A.*, Altunel, E., 2002, Surface rupture and slip distribution along the Karadere segment of the 17-August-1999 Izmit, Turkey, earthquake: *Bulletin of the Seismological Society of America, Special Issue on the 1999 Izmit and Düzce, Turkey, Earthquakes*, N. Toksöz (ed.), v. 92, p. 67-78.

Harris, R., Dolan, J. F., Hartleb, R. D.**, and Day, S., 2002, The 1999 Izmit, Turkey earthquake -- A test of the dynamic stress transfer model for intra-earthquake triggering: *Bulletin of the Seismological Society of America, Special Issue on the 1999 Izmit and Düzce, Turkey, Earthquakes*, N. Toksöz (ed.), v. 92, p. 245-255.

Barka, A., Akyüz, H. S., Altunel, E., Sunal, G., Cakir, Z., Dikbas, A., Yerli, B., Armijo, R., Meyer, B., Chabalier, J. B., Rockwell, T., Dolan, J. F., Hartleb, R.**, Dawson, T.*, Christofferson, S.**, Tucker, A.**, Fumal, T., Langridge, R., Stenner, H., Lettis, W., Bachhuber, J., and Page, W., 2002, Surface rupture and slip distribution of the 17 August 1999 Izmit earthquake (Mw 7.4), North Anatolian fault: *Bulletin of the Seismological Society of America, Special Issue on the 1999 Izmit and Düzce, Turkey, Earthquakes*, N. Toksöz (ed.), v. 92, p. 43-60.

Dolan, J. F., and Rockwell, T. K., 2001, Paleoseismologic evidence for a very large (Mw>7), recent surface rupture on the eastern San Cayetano fault, Ventura County, California: Was this the source of the damaging December 21, 1812 earthquake?: *Bulletin of the Seismological Society of America*, v. 91, p. 1417-1432.

Tucker, A. Z.**, and Dolan, J. F., 2001, Paleoseismologic evidence for a >8 ka age for the most recent surface rupture on the eastern Sierra Madre fault, northern Los Angeles metropolitan region: *Bulletin of Seismological Society of America*, v. 91, p. 232-249.

Borrero, J.*, Dolan, J. F., and Synolakis, C., 2001, Tsunamis within the eastern Santa Barbara Channel: *Geophysical Research Letters*, v. 28, p. 643-646.

Dolan, J. F., Stevens, D.**, and Rockwell, T. K., 2000, Paleoseismologic evidence for an early to mid-Holocene age of the most recent surface rupture on the Hollywood fault, Los Angeles, California: *Bulletin of the Seismological Society of America*, v. 90, p. 334-344.

Weaver, K. D.**, and Dolan, J. F., 2000, Paleoseismology and seismic hazards of the Raymond fault, Los Angeles County, California: *Bulletin of the Seismological Society of America*, v. 90, p. 1409-1428.

Dolan, J. F., Sieh, K., and Rockwell, T. K., 2000, Late Quaternary activity and seismic potential of the Santa Monica fault system, Los Angeles, California: *Geological Society of America Bulletin*, v. 112, p. 1559-1581.

Field, E., Jackson, D., and Dolan, J. F., 1999, A new look at earthquake occurrence in southern California: No deficit or huge earthquakes required: *Bulletin of the Seismological Society of America*, v. 89, p. 559-578.

van Gestel, J-P*, Mann, P., Grindlay, N. R., and Dolan, J. F., 1999, Three-phase tectonic evolution of the northern margin of Puerto Rico as inferred from an integration of seismic reflection, well, and outcrop data: *Marine Geology*, v. 161, p. 257-286.

Mann, P., Grindlay, N. R., and Dolan, J. F., 1999, Subduction to strike-slip transitions on plate boundaries: *GSA Today*, v. 9, p. 14-16.

Dolan, J. F., and Wald, D., 1998, The 1943-1953 north-central Caribbean earthquake sequence: Active tectonic setting, seismic hazards, and implications for Caribbean-North America plate motions: GSA Special Paper 326 *Active tectonics of the north-central Caribbean*, (eds.) Dolan, J. F., and P. Mann, p. 143-169.

Dolan, J. F., Mullins, H. T., and Wald, D., 1998, Active tectonics of the north-central Caribbean: Oblique collision, strain partitioning, and opposing subducted slabs: GSA Special Paper 326 *Active tectonics of the north-central Caribbean*, (eds.) Dolan, J. F., and P. Mann, p. 1-61.

Pratt, T. L., Dolan, J. F., Odum, J. K., Stephenson, W. J., Williams, R. A., and Templeton, M. E., 1998, Multi-scale seismic imaging of active fault zones for seismic hazard assessment: A case study of the Santa Monica fault zone, Los Angeles, California: *Geophysics*, v. 63, p. 479-489.

van Gestel, J. P.*, Mann, P., Dolan, J. F., and Grindlay, N. R., 1998, Structure and tectonics of the upper Cenozoic Puerto Rico-Virgin Islands carbonate platform as determined from seismic reflection studies: *Journal of Geophysical Research*, v. 103, p. 30,505-30,530.

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Thesis Committees for which I am/was chair:

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

Robert Zinke** Ph. D. Expected 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-earthquake ages from the Wairau and Hope faults, New Zealand, using lidar digital topographic data and IR-IRSL²²⁵ 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 Ganey** 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