

# Eric Jameson Fielding

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## EDUCATION:

- **Ph.D.** in Geological Sciences from *Cornell University*; Thesis advisor: Bryan Isacks; Title: Neotectonics of the Central Andean Cordillera from satellite imagery, August 1989; Concentrations: Geomorphology, Geophysics
- **A.B.** in Earth Sciences from *Dartmouth College*, June 1982

## RESEARCH INTERESTS:

- Active tectonics, especially in California and the Alpine-Himalaya-Tibet system, on a variety of time scales ranging from co-seismic and interseismic deformation to Late Quaternary deformation estimated from geomorphic analysis
- Fault interaction via the transfer of stresses through the lithosphere and the applications for earthquake risk assessment
- Long-term evolution (Cenozoic) and present lithospheric structure of Tibet and Altiplano-Puna plateaus and other major topographic features on the Earth and Mars
- Mechanics of landslides including transition from stable to unstable sliding and effects of climate variations

## EXPERIENCE:

### **Jet Propulsion Laboratory, California Institute of Technology**, Pasadena, California

*Senior Research Scientist*, April 2021 to present—Analysis and modeling of surface deformation due to earthquakes, interseismic strain, postseismic deformation, landslides, and non-tectonic strain in California, Colorado, Mexico, New Zealand, Eurasia, and South America. Analysis of topographic datasets for natural and human-induced changes. Advisor for two post-doctoral fellows and visiting graduate students

*Principal Scientist*, October 2010 to March 2021—Analysis of gravity data for lithospheric flexure. Analysis and modeling of surface deformation due to earthquakes, interseismic strain, postseismic deformation, landslides, and non-tectonic strain in California, Colorado, Mexico, New Zealand, Eurasia, and South America. Advisor for 5 post-doctoral fellows and visiting graduate students.

*Research Scientist level A*, October 2007 to September 2010—Analysis of surface deformation due to earthquakes, interseismic strain, postseismic deformation, and non-tectonic strain in California, Eurasia, and South America.

*Research Scientist (permanent)*, November 1999 to September 2007—analysis of active tectonics in California, Turkey, Iran, and Tibet with digital topography. Analysis of surface deformation due to earthquakes, interseismic strain, and non-tectonic strain in California, Turkey, Iran, and Pakistan. Advisor for visiting graduate and undergraduate students.

*Research Scientist (contractor through two companies),* September 1994 to August 1998—interpreted active tectonics and land subsidence in northern Tibet, Mt. Everest area, San Andreas and Hayward faults, San Joaquin Valley, California, and other regions.

**Institute for Electromagnetic Sensing of the Environment** Naples, Italy,  
*Short-term mobility program visitor,* October 2013—Interpretation of active tectonics and other physical processes in Italy and California.

**University of Cambridge,**

*Visiting Scientist,* November 2001 to November 2004— Analysis of surface deformation due to earthquakes, post-seismic and interseismic strain in California and Iran. Investigated fault interactions. Advised post-graduate and Part III (4<sup>th</sup> year) students on various projects. Also extensive collaboration with staff and students at University of Oxford.

**University of Oxford,**

*Senior Research Scientist,* September 1998 to November 1999—studied active tectonics in Greece, Turkey, Iran, New Zealand and Tibet with geomorphic analysis. Analysis of co-seismic displacements due to earthquakes in Turkey and Iran. Greece field trip. Analysis of tilted surfaces in Oxfordshire to estimate lithospheric flexure. Tutored post-graduate students analyzing active tectonics.

**University of Southern California,** Los Angeles, California

*Consulting Scientist,* October 1994 to July 1997—interpreted erosional histories and uplift rates of Nanga Parbat, Pakistan and Transverse Ranges of southern California. Worked with graduate students.

**Cornell University,** Ithaca, New York

*Research Associate,* 1992–1994—interpreted geomorphic expression of active faults and erosion for Eurasia, Middle East and North Africa compared to seismicity. Supervised graduate students and undergraduates working on data processing, ingestion, and interpretation.

*Postdoctoral Associate,* 1989–1992—created a morphotectonic geographic information system for Central Asia and South America. Supervised graduate students and other workers on data processing and ingestion.

*Graduate Research Assistant,* 1983–1985, 1987–1989—interpreted structure of an active fold-thrust belt, distribution of volcanic deposits, and distribution of young faulting in the Altiplano-Puna plateau of the Central Andes by integrated analysis of remote sensing and field mapping.

**Dartmouth College,** Hanover, New Hampshire

*Teaching Assistant,* 1981—class titled Earth, Moon, and Planets (under Robert Jastrow)

**Goddard Institute for Space Studies,** New York, New York

*Research Assistant,* 1981—performed digital image processing of Pioneer Venus imagery to study cloud patterns

*FELLOWSHIPS:*

**NASA Graduate Student Researchers Program Fellowship**, Cornell University, 1985–1987—analyzed tectonic and volcanic geomorphology in the Central Andes from radar and optical images and digital topography data.

**John McMullen Graduate Fellowship**, Cornell University, 1982–1983—analyzed subsurface structure of the blind thrust in hypocentral region of 1983 Coalinga, California earthquake by processing and analyzing seismic reflection profiles acquired by the Consortium for Continental Reflection Profiling (COCORP).

*TEACHING ACTIVITIES:*

Occasional lectures and lab sessions at Oxford 1998–1999, 2001–2003  
SAR Interferometry short course, UNAVCO: 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016

NASA Applied Remote Sensing Training Webinars on SAR Interferometry: 2017; 2018; 2019

SAR Interferometry short course, Naples, Italy: 2009

*DISSERTATIONS EXAMINED:*

2000, Gavin S. Doyle, MSc., University of Cape Town.

2007, Faramarz Nilforoushan, PhD, Uppsala University

2008, John H. Dawson, PhD, Australia National University

2015, Marie-Pierre Doin, Habilitation to Supervise Research (HDR), University of Grenoble

*MENTORING AND ADVISING:*

Many Cornell students 1989–1994

USC students 1994–1997

Several Oxford students 1998–1999

Several Cambridge students and postdoctoral fellows 2001–2004

Summer Space Grant and Summer Internship Program student 2012–2013

JPL Visiting Student Researcher Program Pietro Milillo, 2013–2015

Summer Internship Program and Year-round Internship Program student

Simran Sangha (undergraduate and graduate student), 2014–present

Visiting Student Brent Delbridge, 2014–2016

NASA Postdoctoral Program Fellow Cunren Liang, 2015–2018

NASA Postdoctoral Program Fellow Mong-Han Huang, 2015–2017

NASA Postdoctoral Program Fellow Alexander Handwerker, 2016–2019

NASA Postdoctoral Program Fellow Robert Zinke, 2019–present

Fulbright Fellow Hamid Sana, 2020–present

JPL Visiting Student Researcher Program Nicola Dal Seno, 2020–present

NASA Postdoctoral Program Fellow Niloufar Abolfathian, 2020–present

*SELECTED SERVICE:*

- 2008-2014      Member of WInSAR Executive Committee
- 2010-present      Member of GEO Geohazard Supersites and Natural Hazards
- 2014-2019      Member of CEOS Disasters Seismic Pilot
- 2016-present      Member of CEOS Disasters Landslides Pilot
- 2011-2012      Chair of WInSAR Executive Committee

- 2015-2016 Member of UNAVCO Board of Directors
- 2016-2019 Member of NASA-ISRO SAR (NISAR) mission Science Team

*AWARDS AND INVENTIONS:*

- U.S. Patent awarded 2018 serial number 14/828,348 “Systems and Methods for Advanced Rapid Imaging and Analysis for Earthquakes”
- U.S. Patent awarded 2016 serial number 13/528,610 “Damage Proxy Map from Interferometric Synthetic Aperture Radar Coherence”
- AGU Geodesy Ivan I. Mueller Award for Service and Leadership, 2016
- NASA Exceptional Scientific Achievement Medal, 2010 and 2014
- JPL Edward Stone Award for outstanding research publication, 2010
- Jerald Cook Award for best general session paper at the 12<sup>th</sup> International Conference on Applied Geologic Remote Sensing, 1997

*PROFESSIONAL SOCIETIES:*

Member of American Geophysical Union, AGU Geodesy Ivan I. Mueller Award 2016

Member of Geological Society of America

Member of Seismological Society of America

*CIVIL STATUS:*

Married

*CONSULTING:*

Tele-Rilevamento Europa

US Bureau of Reclamation

*SELECTED PUBLICATIONS:*

*Author of 132 publications, 119 in peer-reviewed scientific journals. The following selected list is followed by a full publication list.*

**Fielding, E. J.**, Z. Liu, O. L. Stephenson, M. Zhong, C. Liang, A. Moore, S.-H. Yun, and M. Simons (2020), Surface deformation related to the 2019 Mw 7.1 and Mw 6.4 Ridgecrest Earthquakes in California from GPS, SAR interferometry, and SAR pixel offsets, *Seismol. Res. Lett.*, doi:10.1785/0220190302.

Ulrich, T., Vater, S., Madden, E. H., Behrens, J., van Dinther, Y., van Zelst, I., **Fielding, E. J.**, Liang, C., and Gabriel, A. A., (2019) Coupled, Physics-Based Modeling Reveals Earthquake Displacements are Critical to the 2018 Palu, Sulawesi Tsunami: *Pure and Applied Geophysics*, v. 176, no. 10, p. 4069-4109.

Ross, Z. E., Idini, B., Jia, Z., Stephenson, O. L., Zhong, M., Wang, X., Zhan, Z., Simons, M., **Fielding, E. J.**, Yun, S.-H., Hauksson, E., Moore, A. W., Liu, Z., and Jung, J., (2019) Hierarchical interlocked orthogonal faulting in the 2019 Ridgecrest earthquake sequence: *Science*, v. 366, no. 6463, p. 346-351.

Handwerger, A. L.\*, **E. J. Fielding**, M. H. Huang, G. L. Bennett, C. Liang, and W. H. Schulz (2019), Widespread Initiation, Reactivation, and Acceleration of Landslides in the Northern California Coast Ranges due to Extreme Rainfall, *Journal of Geophysical Research: Earth Surface*, 124(7), 1782-1797, doi:10.1029/2019jf005035.

- Bao, H., J. P. Ampuero, L. Meng, **E. J. Fielding**, C. Liang, C. W. D. Milliner, T. Feng, and H. Huang (2019), Early and persistent supershear rupture of the 2018 magnitude 7.5 Palu earthquake, *Nat. Geosci.*, doi:10.1038/s41561-018-0297-z.
- Handwerker, A. L.\*, M.-H. Huang, **E. J. Fielding**, A. M. Booth, and R. Bürgmann (2019), A shift from drought to extreme rainfall drives a stable landslide to catastrophic failure, *Scientific Reports*, 9(1), 1569, doi:10.1038/s41598-018-38300-0.
- Dickinson-Lovell, H., M.-H. Huang, A. M. Freed, **E. Fielding**, R. Bürgmann, and C. Andronicos (2018), Inferred rheological structure and mantle conditions from postseismic deformation following the 2010 Mw 7.2 El Mayor-Cucapah Earthquake, *Geophys. J. Int.*, 213(3), 1720-1730, doi:10.1093/gji/ggx546.
- Liang, C.\*, Z. Liu, **E. J. Fielding**, and R. Burgmann (2018), InSAR Time Series Analysis of L-Band Wide-Swath SAR Data Acquired by ALOS-2, *IEEE Transactions on Geoscience and Remote Sensing*, 56(8), 4492-4506, doi:10.1109/tgrs.2018.2821150.
- Yue, H., Z. E. Ross, C. Liang, S. Michel, H. Fattahi, **E. Fielding**, A. Moore, Z. Liu, and B. Jia (2017), The 2016 Kumamoto Mw = 7.0 Earthquake: A Significant Event in a Fault–Volcano System, *Journal of Geophysical Research: Solid Earth*, 122(11), 9166-9183, doi:10.1002/2017JB014525.
- Sangha, S.\*, Peltzer, G., Zhang, A., Meng, L., Liang, C., Lundgren, P. & **Fielding, E.**, 2017. Fault geometry of 2015, Mw7.2 Murghab, Tajikistan earthquake controls rupture propagation: Insights from InSAR and seismological data, *Earth Planet. Sci. Lett.*, 462, 132-141.
- Fielding, E. J.**, S. S. Sangha, D. P. S. Bekaert, S. V. Samsonov, and J. C. Chang, 2017, Surface Deformation of North-Central Oklahoma Related to the 2016 Mw 5.8 Pawnee Earthquake from SAR Interferometry Time Series, *Seism Res Lett*, 88(4), 971-982, doi:10.1785/0220170010.
- Huang, M.-H. \*, **Fielding, E. J.**, Dickinson, H., Sun, J., Gonzalez-Ortega, J. A., Freed, A. M., and Bürgmann, R., 2017, Fault geometry inversion and slip distribution of the 2010 Mw 7.2 El Mayor-Cucapah earthquake from geodetic data: *Journal of Geophysical Research: Solid Earth*, v. 122, no. 1, p. 607-621.
- Huang, M.-H. \*, Tung, H., **Fielding, E. J.**, Huang, H.-H., Liang, C. R., Hu, J.-C., and Huang, C., 2016, Multiple fault slip triggered above the 2016 Mw 6.4 MeiNong earthquake in Taiwan: *Geophysical Research Letters*, v. 43, p. 7459–7467.
- Liang, C. \*, and **Fielding, E. J.**, 2017a, Interferometry With ALOS-2 Full-Aperture ScanSAR Data: *IEEE Transactions on Geoscience and Remote Sensing*, 55(5), 2739-2750, doi:10.1109/TGRS.2017.2653190.
- Liang, C. \*, and **Fielding, E. J.**, 2017b, Measuring Azimuth Deformation With L-Band ALOS-2 ScanSAR Interferometry: *IEEE Transactions on Geoscience and Remote Sensing*, 55(5), 2725-2738, doi:10.1109/TGRS.2017.2653186.

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\* Student or postdoctoral mentee.

- Hamling, I. J., Hreinsdóttir, S., Clark, K., Elliott, J., Liang, C., **Fielding, E.**, et al., 2017, Complex multifault rupture during the 2016 Mw 7.8 Kaikōura earthquake, New Zealand: *Science*, doi:10.1126/science.aam7194.
- Delbridge, B. G. \*, Bürgmann, R., **Fielding, E.**, Hensley, S., and Schulz, W. H., 2016, 3D surface deformation derived from airborne interferometric UAVSAR: Application to the Slumgullion Landslide: *Journal of Geophysical Research*, v. 121, no. 5, p. 3951-3977.
- Kargel, J. S., Leonard, G. J., Shugar, D. H., Haritashya, U. K., Bevington, A., **Fielding, E. J.**, et al., 2016, Geomorphic and geologic controls of geohazards induced by Nepal's 2015 Gorkha earthquake: *Science*, v. 351, no. 6269.
- Yun, S.-H., Hudnut, K., Owen, S., Webb, F., Simons, M., Sacco, P., Gurrola, E., Manipon, G., Liang, C., **Fielding, E.**, Milillo, P., Hua, H., and Coletta, A., 2015, Rapid Damage Mapping for the 2015 Mw 7.8 Gorkha Earthquake Using Synthetic Aperture Radar Data from COSMO-SkyMed and ALOS-2 Satellites: *Seismological Research Letters*, v. 86, no. 6, p. 1549-1556.
- Angster, S., **Fielding, E. J.**, Wesnousky, S., Pierce, I., Chamlagain, D., Gautam, D., Upreti, B. N., Kumahara, Y., and Nakata, T., 2015, Field Reconnaissance after the 25 April 2015 M 7.8 Gorkha Earthquake: *Seismological Research Letters*, v. 86, no. 6, p. 1506-1513.
- Milillo, P. \*, **E. J. Fielding**, W. H. Schulz, B. Delbridge, and R. Burgmann, 2014, COSMO-SkyMed Spotlight Interferometry Over Rural Areas: The Slumgullion Landslide in Colorado, USA, *Selected Topics in Applied Earth Observations and Remote Sensing, IEEE Journal of*, 7(7), 2919-2926.
- Motagh, M., Beavan, J., **Fielding, E.J.** & Haghshenas, M., 2014. Postseismic Ground Deformation Following the September 2010 Darfield, New Zealand, Earthquake From TerraSAR-X, COSMO-SkyMed, and ALOS InSAR, *Geoscience and Remote Sensing Letters, IEEE*, 11, 186-190.
- Fielding, E.J.**, Lundgren, P.R., Taymaz, T., Yolsal-Çevikbilen, S. & Owen, S.E., 2013a. Fault slip source model for the 2011 M7.1 Van earthquake in Turkey from SAR interferometry, pixel offset tracking, GPS and seismic waveform analysis, *Seismological Research Letters*, 84, 579-593.
- Fielding, E.J.**, Sladen, A., Li, Z., Avouac, J.-P., Bürgmann, R. & Ryder, I., 2013b. Kinematic fault slip evolution source models of the 2008 M7.9 Wenchuan earthquake in China from SAR interferometry, GPS and teleseismic analysis and implications for Longmen Shan tectonics, *Geophys. J. Int.*, 194, 1138-1166.
- Beavan, J., Motagh, M., **Fielding, E.J.**, Donnelly, N. & Collett, D., 2012. Fault slip models of the 2010-2011 Canterbury, New Zealand, earthquakes from geodetic data, and observations of post-seismic ground deformation, *NZ J. Geol. & Geophys.*, 55, 207-221.
- Fielding, E.J.**, and McKenzie, D., 2012, Lithospheric Flexure in the Sichuan Basin and Longmen Shan at the Eastern Edge of Tibet, *Geophys. Res. Lett.*, 39, L09311, doi:10.1029/2012GL051680.

- Ryder, I., R. Bürgmann, and **E. Fielding**, 2012, Static stress interactions in extensional earthquake sequences: An example from the South Lunggar Rift, Tibet, *J. Geophys. Res.*, 117(B9), B09405.
- Wei, SJ, **Fielding, E.**, Leprince, S., Sladen, A., Avouac, J.-P., Helmberger, D., Hauksson, E., Chu, R., Simons, M., Hudnut, K., Herring, T., Briggs, R., 2011, Superficial simplicity of the 2010 El Mayor-Cucapah earthquake of Baja California in Mexico: *Nature Geosci.*, doi:10.1038/ngeo1213.
- Fielding, E.J.**, Lundgren, P.R., Bürgmann, R. & Funning, G.J., 2009. Shallow fault-zone dilatancy recovery after the 2003 Bam earthquake in Iran, *Nature*, 458, 64-68.
- Li, Z., **Fielding, E.J.** & Cross, P., 2009. Integration of InSAR Time-Series Analysis and Water-Vapor Correction for Mapping Postseismic Motion After the 2003 Bam (Iran) Earthquake, *Geoscience and Remote Sensing, IEEE Transactions on*, 47, 3220-3230.
- Pathier, E., **Fielding, E.J.**, Wright, T.J., Walker, R., Parsons, B.E., and Hensley, S., 2006, Displacement field and slip distribution of the 2005 Kashmir earthquake from SAR imagery: *Geophysical Research Letters*, v. 33, p. L20310, doi:10.1029/2006GL027193.
- Fielding, E.J.**, Talebian, M., Rosen, P.A., Nazari, H., Jackson, J.A., Ghorashi, M., and Berberian, M., 2005, Surface ruptures and building damage of the 2003 Bam, Iran earthquake mapped by satellite synthetic aperture radar interferometric correlation: *J. Geophys. Res.*, v. 110, no. B3, p. B03302, doi:10.1029/2004JB003299.
- Fielding, E.J.**, Wright, T.J., Muller, J., Parsons, B.E., and Walker, R., 2004, Aseismic deformation of a fold-and-thrust belt imaged by synthetic aperture radar interferometry near Shahdad, southeast Iran: *Geology*, v. 32, no. 7, p. 577-580.
- Wright, T.J., Parsons, B., England, P.C., and **Fielding, E.J.**, 2004, InSAR observations of low slip rates on the major faults of Western Tibet: *Science*, v. 305, no. 5681, p. 236-239.
- Bürgmann, R., Rosen, P.A., and **Fielding, E.J.**, 2000, Synthetic aperture radar interferometry to measure Earth's surface topography and its deformation: *Ann. Rev. Earth Planet. Sci.*, v. 28, p. 169-209.
- Fielding, E.J., Blom, R.G., and Goldstein, R.M., 1998, Rapid subsidence over oil fields measured by SAR interferometry: *Geophys. Res. Lett.*, v. 25, p. 3215-3218.
- Rosen, P.A., Zebker, H., Hensley, S., Webb, F., and **Fielding, E.J.**, 1996, Measurement of surface displacements at Kilauea, Hawaii by differential interferometry on SIR-C SAR, *Jour. Geophys. Res.*, v. 101, p. 23,109-23,125.
- Masek, J.G.\*, Isacks, B.L., **Fielding, E.J.**, and Browaeys, J., 1994, Rift-flank uplift in Tibet: Evidence for a viscous lower crust, *Tectonics*, v. 13, no. 2, p. 659-667.
- Fielding, E. J., Isacks, B. L., Barazangi, M., and Duncan, C.C., 1994, How flat is Tibet?, *Geology*, v. 22, no. 2, p. 163-167.

Fielding, E. J., and Jordan, T. E., 1988, Active deformation at the boundary between the Precordillera and Sierras Pampeanas, Argentina, and comparison with ancient Rocky Mountain deformation, *in* Schmidt, C. J., and Perry, W. J., eds., *Interaction of the Rocky Mountain Foreland and the Cordilleran Thrust Belt*, Geological Society of America Memoir 171, p. 143–163.

Fielding, E. J., Barazangi, M., Brown, L., Oliver, J., and Kaufman, S., 1984, COCORP seismic profiles near Coalinga, California: Subsurface structure of the western Great Valley, *Geology*, v. 12, p. 268–273, May 1984.

**REFEREED FULL PAPERS:**

- 1) Fielding, E. J., Barazangi, M., Brown, L., Oliver, J., and Kaufman, S., 1984, COCORP seismic profiles near Coalinga, California: Subsurface structure of the western Great Valley, *Geology*, v. 12, p. 268–273, May 1984.
- 2) Fielding, E. J., Knox, W. J., Jr., and Bloom, A. L., 1986, SIR-B radar imagery of volcanic deposits in the Andes, *IEEE Transactions on Geoscience and Remote Sensing*, v. GE-24, no. 4, p. 582–589.
- 3) Bloom, A. L., Fielding, E. J., and Fu, X-Y, 1988, A Demonstration of Stereophotogrammetry with Combined SIR-B and Landsat TM Images: *Int. Jour Remote Sensing*, v. 9, no. 5, p. 1023–1038.
- 4) Fielding, E. J., Isacks, B. L., Barazangi, M., and Duncan, C.C., 1994, How flat is Tibet?, *Geology*, v. 22, no. 2, p. 163–167.
- 5) Masek, J.G.\*, Isacks, B.L., Fielding, E.J., and Browaeys, J., 1994, Rift-flank uplift in Tibet: Evidence for a viscous lower crust, *Tectonics*, v. 13, no. 2, p. 659–667.
- 6) Masek, J.\*, Isacks, B. L., Gubbels, T. L., and Fielding, E. J., 1994, Erosion and tectonics at the margins of continental plateaus, *Journal of Geophysical Research*, v. 99, no. B7, p. 13,941–13,956.
- 7) Barazangi, M., Fielding, E., Isacks, B., and Seber, D., 1996, Geophysical and geological databases and CTBT monitoring: a case study of the Middle East, *in* E.S. Husebye and A.M. Dainty (eds.), *Monitoring a Comprehensive Test Ban Treaty*, Kluwer, p. 197–224.
- 8) Burbank, D.W., Leland, J., Fielding, E.J., Anderson, R.S., Brozovic, N., Reid, M. and Duncan, C.C., 1996, Fluvial incision, rock uplift, and threshold hillslopes in the northwestern Himalaya, *Nature*, v. 379, p. 505–510.
- 9) Fielding, E.J., 1996, Tibet uplift and erosion, *Tectonophysics*, v. 260, p. 55–84.
- 10) Rosen, P.A., Zebker, H., Hensley, S., Webb, F., and Fielding, E.J., 1996, Measurement of surface displacements at Kilauea, Hawaii by differential interferometry on SIR-C SAR, *Jour. Geophys. Res.*, v. 101, p. 23,109–23,125.



- 11) Rosen, P.A., C.L. Werner, E.J. Fielding, S. Hensley, S.M. Buckley, P. Vincent, 1998, Aseismic creep along the San Andreas Fault northwest of Parkfield, CA, measured by radar interferometry, *Geophys. Res. Lett.*, v. 25, no. 6, p. 825–828.
- 12) Bürgmann, R., E. Fielding, and J. Sukhatme, 1998, Slip along the Hayward fault, California, estimated from space-based synthetic aperture radar interferometry, *Geology*, v. 26, no. 6, p. 559–562.
- 13) Tobita, M., S. Fujiwara, S. Ozawa, P. Rosen, E. Fielding, C. Werner, M. Murakami, H. Nakagawa, K. Nitta, and M. Murakami, 1998, Deformation of the 1995 North Sakhalin earthquake detected by JERS-1/SAR interferometry, *Earth, Planets and Space*, v. 50, p. 313–325.
- 14) Fielding, E.J., Blom, R.G., and Goldstein, R.M., 1998, Rapid subsidence over oil fields measured by SAR interferometry: *Geophys. Res. Lett.*, v. 25, p. 3215–3218.
- 15) Albright, T.P., Painter, T.H., Roberts, D.A., Shi, J.C., Dozier, J., and Fielding, E., 1998, Classification of surface types using SIR-C/X-SAR, Mount Everest Area, Tibet: *Jour. Geophys. Res.*, v. 103, p. 25823-25837.
- 16) Wright, T.J., Parsons, B.E., Jackson, J.A., Haynes, M., Fielding, E.J., England, P.C., and Clarke, P.J., 1999, Source parameters of the 1 October 1995 Dinar (Turkey) earthquake from SAR interferometry and seismic bodywave modelling: *Earth Planet. Sci. Lett.*, v. 172, p. 23-37.
- 17) Bürgmann, R., Rosen, P.A., and Fielding, E.J., 2000, Synthetic aperture radar interferometry to measure Earth's surface topography and its deformation: *Ann. Rev. Earth Planet. Sci.*, v. 28, p. 169-209.
- 18) Bürgmann, R., Schmidt, D., Nadeau, R.M., d'Alessio, M., Fielding, E.J., Manaker, D., McEvelly, T.V., and Murray, M.H., 2000, Earthquake Potential Along the Northern Hayward Fault, California: *Science*, v. 289, p. 1178-1182.
- 19) Watts, A.B., McKerrow, W.S., and Fielding, E.J., 2000, Lithospheric flexure, uplift, and landscape evolution in south-central England: *J. Geol. Soc.*, v. 157, p. 1169-1177.
- 20) Blythe, A., Burbank, D.W., Farley, K.A., and Fielding, E.J., 2000, Structural and topographic evolution of the central Transverse Ranges, California from apatite fission-track, (U-Th)/He and digital elevation model analyses: *Basin Res.*, v. 12, p. 97-114.
- 21) Kenward, T., Lettenmaier, D.P., Wood, E.F., and Fielding, E.J., 2000, Effects of digital elevation model accuracy on hydrologic predictions: *Remote Sensing of Environment*, v. 74, no. 3, p. 432-444.

- 22) Wright, T.J., Fielding, E.L., Parsons, B.E., and England, P.C., 2001, Triggered slip: observations of the 17 August 1999 Izmit (Turkey) earthquake using radar interferometry: *Geophys. Res. Lett.*, v. 28, p. 1079-1082.
- 23) Prakash, A., Fielding, E., Gens, R., van Genderen, J.L., and Evans, D.L., 2001, Data fusion for investigating land subsidence and coal fire hazards in a coal mining area: *Int. J. Remote Sensing*, v. 22, p. 921-932.
- 24) Berberian, M., Jackson, J.A., Fielding, E.J., Parsons, B.E., Priestley, K., Qorashi, M., Talebian, M., Walker, R., Wright, T.J., and Baker, C., 2001, The 1998 March 14 Fandoqa earthquake ( $M_w$  6.6) in Kerman province, southeast Iran: Re-rupture of the 1981 Sirch earthquake fault, triggering of slip on adjacent thrusts and the active tectonics of the Gowk fault zone: *Geophysical Journal International*, v. 146, no. 2, p. 371-398.
- 25) Wright, T.J., B.E. Parsons, and E.J. Fielding, Measurement of interseismic strain accumulation across the North Anatolian Fault by satellite radar interferometry, *Geophys. Res. Lett.*, 28 (10), 2117-2120, 2001.
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