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February 24, 2023

CURRICULUM VITAE

EDUCATION:

- *Stanford University*, Stanford, California, Ph.D., Geological Sciences, 1993.
- *University of Colorado*, Boulder, Colorado, M.S., Structural Geology, 1989.
- *Universität Tübingen*, Germany, Vordiplom, Geology, Paleontology and Mineralogy, 1987.

RESEARCH INTERESTS:

Active tectonics and crustal rheology. Using the Global Positioning System and Synthetic Aperture Radar Interferometry to measure crustal deformation near active faults, volcanoes and landslides. Develop mechanical models of crustal deformation through the earthquake cycle along major fault zones to better understand the rheology and deformation mechanisms in the Earth's lithosphere.

PROFESSIONAL EXPERIENCE:

Since 06/06	Professor, Department of Earth and Planetary Science, UC Berkeley
01/01-06/06	Associate Professor, Dept. of Earth and Planetary Science, UC Berkeley
07/98-12/00	Assistant Professor, Department of Geology and Geophysics, UC Berkeley
01/95-06/98	Assistant Professor, Department of Geology, UC Davis
10/93-12/94	Postdoctoral Scholar, Department of Geophysics, Stanford University
06/91-09/91	Student Employee at U.S. Geological Survey, Menlo Park
09/89-06/91	Teaching Assistant, Department of Geology, Stanford University
09/88-05/89	Research Assistant, Department of Geology, University of Colorado, Boulder
10/86-06/87	Research Assistant, Universität Tübingen, Germany

AWARDS AND MEMBERSHIPS:

Fellow, American Association for the Advancement of Science (AAAS), 2019
Miller Research Professor, UC Berkeley, 2014
Fellow, American Geophysical Union (AGU), 2013
Birch Lecturer, American Geophysical Union, 2013 Fall Meeting
UC Berkeley Faculty Award for Excellence in Postdoctoral Mentoring, 2012
Alexander von Humboldt Foundation, Friedrich Wilhelm Bessel Prize, 2005
Geological Society of America Outstanding Student Research Award, 1992
Stanford-U.S. Geological Survey Graduate Fellowship, 1991-92
Geological Society of America Grant, 1988, 1990, 1991, and 1992
Mc Gee Award, 1990, 1991, and 1992
Centennial Teaching Assistant Award, Stanford University, 1991

Donath Honors Fellowship in Earth Sciences, 1990-91
Sigma Xi Grants-in-Aid, 1990
Fulbright Scholarship, 1987-1989
'Studienstiftung des Deutschen Volkes' Scholarship 1987-1989
Member of the AAAS, AGU, GSA, and SSA

SERVICE (Since 2010):

2007 – 2010 Elected member, SSA Board of Directors
2008 – 2010 Elected, Vice-chair, WInSAR Standing Committee
2008 – 2010 Elected, Vice-chair, WInSAR Standing Committee
2010 Member, USGS-NEHRP proposal review panel, Earthquake Physics
2008 – 2011 Member, PBO Advisory Committee
2007 – 2012 SSA Publications Committee
2009 – 2012 Department Chair, EPS
2009 – 2012 Chair, Department of Earth and Planetary Science, UC Berkeley
2011 – 2012 Member, Organizing Committee of Workshop on Advancing Experimental Rock Deformation Research: Scientific and Technical Needs
2008 – 2013 Member, Editorial Advisory Board, *Eos*
2014 – 2015 Member, Organizing Committee, Future Seismic and Geodetic Facility Needs in the Geosciences Workshop
2015 Member, EPS faculty promotion review Ad-Hoc Committee
2015 – 2016 Member, Organizing Committee, 2016 UNAVCO Science Workshop
2015 – 2016 Guest editor, Special Issue in the Journal of Asian Earth Sciences on 25 April 2015 Gorkha Earthquake in Nepal Himalaya
2015 – 2016 Member, UNAVCO Board Nominating Committee
2012 – 2016 Member, Southern California Earthquake Center (SCEC) Board of Directors
2014 – 2016 Co-Chair, IRIS Science Advisory Committee: Faulting and deformation processes
2016 Co-leader SSA Workshop on Publishing for early career scientists, Reno
2013 – 2017 Member, Earth Science Subcommittee (ESS) of NASA Advisory Council
2013 – 2017 Member, Facilities Committee of DEFORM
2014 – 2017 Member, AGU Tectonophysics Union Fellows Committee
2014 – 2018 Member, SSA Honors Committee
2014 – 2019 Member, Membership Committee of UNAVCO
2016 – 2019 Member, Committee on Research (COR), UC Berkeley
2017 – 2019 Co-leader SSA Workshop on Peer Review for early career scientists, Denver, Miami and Seattle
2019 Member, External Review Committee EAPS Department, Purdue University
2019 Member, Berkeley Campus Ad Hoc Review Committee (CAHRC)
2019 Co-chair, SSA Meeting Student Presentation Award
2016 – 2017 Chair, SSA Awards Encouragement Committee (SAEC)

- 2017 – 2020 Member SSA Awards Encouragement Committee (SAEC)
- 2007 – 2020 Member, Editorial Board, *Earth and Planetary Science Letters*
- 2017 – 2021 Member, NASA Earth Science Advisory Committee (ESAC, former ESS)
- 2019 – 2021 Special Issue Associate Editor, *Journal of Geophysical Research*
- 2019 – 2021 Special Issue Associate Editor, *Journal of Geophysical Research*
- 2020 – 2021 Member, SCEC Committee on Basic Questions of Earthquake Science
- 2020 – 2021 Member, Science Coordination Committee, 2021 GAGE/SAGE Science Workshop
- 2021 Member, Subcommittee on SZ4D Implementation Structures
- 2021 Member, External Review Committee, Earth and Environmental Sciences department, University of Michigan
- 2015 – 2022 Advisory Board for COMET (Centre for the Observation and Modelling of Earthquakes, Volcanoes and Tectonics), Leeds UK
- 2016 – 2022 Member, Executive Committee, Miller Institute for Basic Research in Science, Berkeley
- 2017 – 2025 Member, Advisory Committee of the Institute of Earth Sciences, Academia Sinica
- 2020 – 2022 Member, Steering Committee, SZ4D Research Coordination Network
- 2021 – 2022 Elected member, UNAVCO Board of Directors
- 2021 – 2022 Member, EarthScope Governance Planning Team
- Since 2011 Member, National Earthquake Prediction Evaluation Council (NEPEC)
- Since 2016 Chair, USGS National Earthquake Prediction Evaluation Council (NEPEC)
- Since 2016 Member, USGS Scientific Earthquake Studies Advisory Committee (SESAC)
- Since 2019 Member, SCEC Science Planning Committee (Co-Chair, SDOT Focus Area)
- Since 2019 Member, Advisory Committee of Research Coordination Network: In situ Studies of Rock Deformation (ISRDR)
- Since 2020 Member, SZ4D Faulting and Earthquake Cycles Working Group
- Since 2022 Member, SZ4D Committee on Committees
- Since 2022 Member, DFG Expertengremium für die Exzellenzstrategie
- Since 2023 Member, Integration and Innovation Advisory Committee of EarthScope Consortium

INVITED LECTURES (Since 2009):

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|-----------------------------------|---|
| 05/09/2022 Oxford University, UK | Subduction Megathrust Coupling and Slip Through Earthquake Cycles |
| 05/02/2022 INGV, Rome
FEAR URL | Subduction Megathrust Coupling and Slip Through Earthquake Cycles |
| 04/27/2022 LMU, Munich | Dynamic Plate Boundaries of the Mendocino Triple Junction |

04/16/2022 ETH workshop, Syros	Constraints from Geodesy on Deep Interface Processes
04/04/2022 IPGP, Paris	Subduction Megathrust Coupling and Slip Through Earthquake Cycles
03/30/2022 ISTerre, Grenoble	Kinematics, Dynamics and Hazard of Slow-Moving Landslides
03/16/2022 KAUST, Thuwal	Earthquake Weather? Seasonal Water Storage, Deformation and Seismicity
11/05/2021 CERI Memphis	Seasonal and Tidal Modulation of Earthquakes and Tremor
09/23/2021 EPS Seminar, Berkeley	Kinematics, Dynamics and Hazard of Slow-Moving Landslides
07/23/2021 Berkeley Breakfast Club, Berkeley City Club, Berkeley	Natural Hazards in Your Backyard from Outer Space
04/01/2021 Univ. of Utah, SLC	Earthquake Weather? Seasonal Water Storage, Deformation and Seismicity
01/13/2021 Univ. of Oregon, Eugene	Seasonal water storage and modulation of earthquakes
10/27/2020 IGPP Seminar, SIO/UCSD	Seasonal water storage and modulation of earthquakes
10/21/2020 Basic Science Lights the Way: "The Overactive Earth", UC Berkeley	Active Tectonics on an Overactive Earth
09/30/2020 Northern California Geological Society (NCGS)	A close-up view of Bay Area natural hazards from outer space
08/05/2020 Seafloor Geodesy https://www.unavco.org/education/professional-development/short-courses/2020/seafloorgeodesy/seafloorgeodesy.html	State-of-the-Art in Seafloor Geodesy
04/03/2020 DeTect Series http://www.ipgp.jussieu.fr/~klinger/web_Yann/Detect_page/detect.html	Slow Fault Slip
10/06/2019, Megathrust Modeling Workshop, Eugene, OR	Slow Slip, Asperities and Deformation
06/24/2019, COMET, York, UK	Geophysical Probing of Fault Rheology
06/17/2019, Tel Aviv University, Israel	The ingredients of slow fault slip
04/04/2019, GFZ Potsdam, Germany	Mechanical Ingredients of Slow Fault-Slip Transients
10/20/2018, UC Berkeley, Science at Cal	A shaky anniversary: Lessons learned since the October 21, 1868 Hayward earthquake
08/06/2018, Univ. of Sci. and Technology, Hefei, China	Seasonal Deformation and Seismicity in California
08/03/2018, Institute of Seismology, CEA, Wuhan, China	Water and Tides Modulate Deformation, Seismicity and Tremor in California
08/01/2018 ISGG 2018 Symposium, Kunming, China	Probing the Deep Rheology of the Tibetan Plateau
07/02/2018 COMET Annual Workshop, Lee Valley, UK	InSAR Characterization of Slow Moving Landslides
06/28/2018 ISTerre Grenoble, France	Water and Tides Modulate Deformation, Seismicity and Tremor in California
06/25/2018 50 Years of Plate Tectonics Symposium, Collège de France, Paris	Probing the Rheology of the Asthenosphere

11/17/2016 Joint Meeting of the U.S.-Japan Panel on Earthquake Research (UJNR), Napa, CA	Transient Deformation and Stress From Enduring Postseismic Deformation of the 2011 Tohoku-Oki Earthquake
08/08/2016 National Normal Taiwan University, Taipei, Taiwan	Periodic Deformation, Seismicity and Tremor in California
07/20/2016 International Symposium Crustal Dynamics, Takayama, Japan	Transient Deformation and Stress From Postseismic Deformation of Great Megathrust Earthquakes
07/15/2016 Tohoku University, Japan	Transient Deformation and Stress From Postseismic Deformation of Great Megathrust Earthquakes
10/15/15 Dept. of Geosciences, UT Austin	Climate driven water storage, deformation and earthquakes in California
10/16/15 UT Institute of Geophysics	What gives in the lower crust? Evidence from postseismic relaxation and tidally triggered tremors
07/07/2015 Ecole Normale Supérieure, Paris; 07/13/2015 School of Earth and Environment, University of Leeds; 07/21/2015 University College of London; 07/23/2015 University of Cambridge	Periodic Crustal Deformation and Seismicity
06/29/2015 Kandilli Observatory, Istanbul	Aseismic Fault Slip Along the San Andreas Fault System from GPS and InSAR
05/12/2015 Earth and Planetary Sciences Dept., UCSC	Periodic Crustal Deformation and Seismicity
12/04/2014 Dept. of Earth, Planetary and Space Sciences, UCLA	Periodic Crustal Deformation and Seismicity
10/16/2014 Geophysics Dept., Stanford University	Periodic Crustal Deformation and Seismicity
10/09/2014 EPS Distinguished Faculty Lecture, Berkeley	Periodic Crustal Deformation and Seismicity
06/09/2014 USGS Western Region Colloquium	Periodic Deformation and Seismicity: From Tides to Seasonal Water Loads
05/05/2014 Department of Earth Sciences, USC	Periodic Deformation and Seismicity: From Tides to Seasonal Water Loads
01/17/2013 Geophysics Department, Stanford University	Megathrust earthquake cycle deformation in Sumatra and Japan
10/22/2012 EOS Singapore, Workshop on Seafloor Geodesy	The Value of Seafloor Geodesy for Subduction Zone Earthquake Cycle Studies
09/26/2012 Symposium of Global COE Program for Earth Sciences	Resolving Postseismic Relaxation Processes Following the 2011 Tohoku Earthquake
07/01&07/03/2012 Lair of the Bear, Pinecrest California	California Earthquakes! (public lecture to UC Berkeley Alumni)
03/18/2012 Geofluids Symposium: Dynamics and Evolution of the Earth's Interior, Misasa Japan	The Role of Fluids in the Rheology of Rocks and Fault Zones in the Lower Crust and Upper Mantle
09/19/2011 EarthScope Institute on Lithosphere-Asthenosphere Boundary, Portland	Lithosphere and Asthenosphere Rheology from Post-loading Deformation
03/29/11 UC Berkeley Panel Discussion, Earthquakes, tsunamis and nuclear fallout: Is California at risk like Japan?	What does the future hold for earthquakes in CA?

10/14/2011 EarthScope Institute on the Spectrum of Fault Slip Behavior, Portland	Triggering and Modulation of Slow Slip: Implications for Mechanics and Hazard
06/24/10 EOS Nanyang Technological University, Singapore	Postseismic Relaxation, Slow Slip and Tremor: Rheology of the Lithosphere and Faults
11/23/09 Caltech	Probing The Rheology And Localization Of Deformation In The Lower Crust: Evidence From Postseismic Relaxation And Tremor
10/18/09 Loma Prieta Earthquake Commemorative Symposium, San Francisco	New Insights into the San Andreas Fault System from Space Geodesy and the next Generation of Crustal Deformation Models
07/23/09 INGV Bologna, Italy	Lithosphere and Fault Rheology from Earthquake Cycle Deformation
07/21/09 Tele-Rilevamento Europa, Milano, Italy	Active Tectonics and Non-Tectonics of the San Francisco Bay Area from PS-InSAR
07/13/09 "Frontiers in Earth Sciences" Lecture Series, Ludwig Maximilian Univ., Germany	Active Tectonics and Non-Tectonics of the San Francisco Bay Area from Space Geodesy
07/03/09 DLR, Oberpfaffenhofen, Germany	Active Tectonics and Non-Tectonics of the San Francisco Bay Area from InSAR
06/30/09 Geophysics Department, Ludwig Maximilian Univ., Germany	Lithosphere Rheology from Postseismic Deformation
05/01/09 INPA Seminar, LBNL	Earthquake potential of the Hayward fault
03/23/09 Univ. of Southern California	Lithosphere Rheology from Postseismic Deformation: What's for Dessert?

JOURNAL REVIEWS:

Reviewed papers published in Science, Nature, Nature Geoscience, Tectonics, Tectonophysics, Physics of the Earth and Planetary Interiors, J. of the Geological Society of India, J. of Volcanological and Geothermal Research, Terra Nova, Israel J. of Earth Sciences, Earth and Planetary Science Letters, Geophysical J. International, Geophysical Research Letters, Geology, Geological Society of America Bulletin, J. of Geophysical Research, and Bulletin of the Seismological Society of America.

PUBLICATIONS (Orcid ID: [0000-0002-3560-044X](https://orcid.org/0000-0002-3560-044X)):

1989:

1. Ratschbacher, L., Meschede, M., Frisch, W., Bürgmann, R., Ott, R., Richter, C., Streck, M., and Wech, A., Personal Computer in Strukturgeologie und Tektonik, *Zeitsch. dt. geol. Ges.*, v.140, 219-229.

1990:

2. Behr, J., Bilham, R., Bodin, P., Burford, R.O., Bürgmann, R., 1990, Aseismic slip on the San Andreas fault south of Loma Prieta, *Geophys. Res. Lett.*, 17, 1445-1448.

1991:

3. Bürgmann, R., 1991, Transpression along the southern San Andreas Fault, Durmid Hill, California, *Tectonics*, 10, 1152-1163.

1992:

4. Bürgmann, R., and Pollard, D.D., 1992, Influence of the state of stress on the brittle-ductile transition in granitic rock: Evidence from fault steps in the Sierra Nevada, California, *Geology*, 20, 645-648.

1994:

5. Bürgmann, R., Arrowsmith, R., Dumitru, T., and McLaughlin, R., 1994, Rise and fall of the southern Santa Cruz Mountains, California, from fission tracks, geomorphology, and geodesy, *Journal of Geophysical Research*, 99, 20,181-20,202
6. Bürgmann, R., Pollard, D.D., and Martel, S.J., 1994, Slip distribution on faults: effects of stress gradients, inelastic deformation, heterogeneous host-rock stiffness, and fault interaction, *Journal of Structural Geology*, 16, 1675-1690.
7. Bürgmann, R., And Pollard, D.D., 1994, Strain accomodation about strike-slip fault discontinuities in granitic rock under brittle-to-ductile conditions, *Journal of Structural Geology*, 16, 1655-1674.
8. Bürgmann, R., Arrowsmith, R., and Dumitru, T., 1994, Slip Rates and Earthquake Hazard Along the Foothills Thrust Belt in the Southern San Francisco Bay Area, *USGS Open File Report*, 31-33.

1995:

9. Owen, S., Segall, P., Freymueller, J., Miklius, A, Denlinger, R., Arnadottir, T., Sako, M., Bürgmann, R., 1995, Rapid deformation of the south flank of Kilauea Volcano, Hawaii, *Science*, 267, 1328-1332.
10. Paul, J., Blume, F., Jade, S., Kumar, V., Swathi, P.S., Ananda, M.B., Gaur, V.K., Bürgmann, R., Bilham, R., Namboodri, B., Mencin, D., 1995, Microstrain stability of Peninsular India 1864-1994, *Proceedings of the Indian Academy of Sciences (Earth Planetary Sciences)*, 104, No. 1, 131-146.

1996:

11. E. Boschi, D. Giardini, D. Pantosti, G. Valensise, R. Arrowsmith, Basham, R. Bürgmann, A. Crone, A. Hull, R. McGuire, D. Schwartz, K. Sieh, S. Ward and R. Yeats, 1996, New Trends in Active Faulting Studies for Seismic Hazard Assessment, *Annali di Geofisica*, 34, 1301-1307.
12. Bürgmann, R., 1996, Earth Crust, *in McGraw-Hill Yearbook of Science and Technology*, McGraw-Hill, New York, p.153-157
13. Freymueller, J., Bilham, R., Bürgmann, R., Larson, K.M., Paul, J., Jade S., and, Gaur, V., 1996, Global Positioning System measurements of Indian plate motion and convergence across the Lesser Himalaya, *Geophysical Research Letters*, 23, 3107-3110.

1997:

14. Bürgmann, R., 1997, Active detachment faulting in the San Francisco Bay area?, *Geology*, 25, p.1135-1138.

15. Bürgmann, R., Segall, P., Lisowski, M., and Svarc, J.L., 1997, Postseismic Strain Following the 1989 Loma Prieta Earthquake From GPS and Leveling Measurements, *Journal of Geophysical Research*, 102, p.4933-4955.
16. Bürgmann, R., Segall, P., Lisowski, M., and Svarc, J.L., 1997, Strain development subsequent to the 1989 Loma Prieta earthquake, *U.S.G.S. Professional Paper 1550D*, p.209-244.

1998:

17. Arrowsmith, R., Bürgmann, R., and Dumitru, T., 1998, Uplift and fault slip rates in the southern San Francisco bay area from fission-tracks, geomorphology, and geodesy, in Quaternary geochronology and seismic hazards assessments, in Noller, J. S., Sowers, J. M., and Lettis, W. R., eds., *Dating and earthquakes: Review of Quaternary geochronology and its application to paleoseismology*: U. S. Nuclear Regulatory Commission, NUREG/CR 5562, 345-351.
18. Bürgmann, R., Fielding, E., and Sukhatme, J., 1998, Slip along the Hayward fault, California, estimated from space-based synthetic aperture radar interferometry, *Geology*, 26, no. 6, 559-562.
19. Gross, S., and Bürgmann, R., 1998, Rate and state of background stress estimated from the aftershocks of the 1989 Loma Prieta, California, earthquake, *J. Geophys. Res.*, 103, 4915-4927.
20. Pollitz, F., R. Bürgmann, and B. Romanowicz, 1998, Viscosity of oceanic asthenosphere inferred from remote triggering of earthquakes, *Science*, 280, 1245-1249.
21. Pollitz, F., Bürgmann, R., and Segall, P., Joint estimation of afterslip rate and postseismic relaxation following the 1989 Loma Prieta earthquake, *J. Geophys. Res.*, 103, 26,975-26,992, 1998.

1999:

22. Bürgmann, R., Larson, K., and Bilham, R., 1999, Model Inversion Of GPS And Leveling Measurements Across The Himalaya: Implications For Earthquake Hazards And Future Geodetic Networks, *Himalayan Geology*, 20, 59-72.
23. Larson, K., Bürgmann, R., Bilham, R., and Freymueller, J.T., 1999, Kinematics of the India-Eurasia collision zone from GPS measurements, *J. Geophys. Res.*, 104, 1077-1093.

2000:

24. Bürgmann, R., Rosen, P., and Fielding, E., Synthetic aperture radar interferometry to measure Earth's surface topography and its deformation, *Annual Reviews of Earth and Planetary Sciences*, 28, 169-209, 2000.
25. Bürgmann, R. Schmidt, D., Nadeau, R., D'Alessio, M., Fielding, E., Lawrence, S., Manaker, D., McEvelly, T., and Murray, M.H., Earthquake potential along the northern Hayward fault, California, *Science*, 289, 1178-1182, 2000.
26. Pollitz, F.F., Peltzer, G., and Bürgmann, R., Mobility of continental mantle: Evidence from postseismic geodetic observations following the 1992 Landers earthquake, *J. Geophys. Res.* 105, 8035-8054, 2000.
27. Reilinger, R. E., S. Ergintav, R. Bürgmann, S. McClusky, O. Lenk, A. Barka, O. Gurkan, L. Hearn, K. L. Feigl, R. Cakmak, B. Aktug, H. Ozener, M. N. Töksoz, Coseismic and postseismic fault slip for the 17 August 1999, M=7.5, Izmit, Turkey Earthquake *Science*, 289, 1519-1524, 2000.
28. Segall, P., R. Bürgmann, and M. Matthews, Time dependent deformation following the 1989 Loma Prieta earthquake, *J. Geophys. Res.*, 105, 5615-5634, 2000.

2001:

29. Ayhan, M. E., Bürgmann, R., McClusky, S., Lenk, O., Aktug, B., Herece, E., and Reilinger, R.E., Kinematics of the Mw 7.2, 12 November 1999, Düzce, Turkey earthquake, *Geophys. Res. Lett.* 28, 367-370, 2001.
30. Bürgmann, R., M.G. Kogan, V.E. Levin, C.H. Scholz, R.W. King, and G.M. Steblov, Rapid aseismic moment release following the 5 December, 1997 Kronotsky, Kamchatka, earthquake, *Geophys. Res. Lett.*, 28, 1331-1334, 2001.

31. Cannon, E.C., and Bürgmann, R., Prehistoric fault offsets of the Hilina fault system, South Flank of Kilauea Volcano, Hawaii, *J. Geophys. Res.*, 106, 4207-4219, 2001.
32. Cannon, E.C., Bürgmann, R., and Owen, S.E., Shallow normal faulting and block rotation associated with the 1975 Kalapana earthquake, Kilauea Volcano, Hawaii, *Bull. Seismol. Soc. Am.*, 91, 1553-1562, 2001.
33. Paul, J., R. Bürgmann, V.K. Gaur, R. Bilham, K. Larson, M.B. Ananda, T.S. Anupama, S. Jade, D. Kumar, and M. Mukul, The motion and active deformation across India, *Geophys. Res. Lett.* 28, 647-651, 2001.
34. Pollitz, F.F., Kellogg, L, and Bürgmann, R., Sinking mafic body in a reactivated lower crust: A mechanism for stress concentration at the New Madrid seismic zone, *Bull. Seismol. Soc. Am.*, 91, 1882-1897, 2001.

2002:

35. Banerjee, P., and Bürgmann, R., Convergence across the northwest Himalaya from GPS measurements, *Geophys. Res. Lett.*, 29, 10.1029/2002GL015184, 2002.
36. Bürgmann, R., M.E. Ayhan, E.J. Fielding, T.J. Wright, S. McClusky, B. Aktug, C. Demir, O. Lenk, and A. Türkezer, Deformation during the 12 November 1999 Düzce, Turkey Earthquake, from GPS and InSAR Data, *Bull. Seism. Soc. Am.*, 92, 161-171, 2002.
37. Bürgmann, R., S. Ergintav, P. Segall, E.H. Hearn, S. McClusky, R.E. Reilinger, H. Woith, and J. Zschau, Time-dependent distributed afterslip on and deep below the Izmit earthquake rupture, *Bull. Seism. Soc. Am.*, 92, 126-137, 2002.
38. Dzurisin, D., M.P. Poland, and R. Bürgmann, Steady subsidence of Medicine Lake Volcano, northern California, revealed by repeated leveling surveys, *J. Geophys. Res.*, 107, doi:10.1029/2001JB000893, 2002.
39. Ergintav, S., R. Bürgmann, S. McClusky, R. Cakmak, R.E. Reilinger, O. Lenk, A. Barka, and O. Gurkan, Postseismic deformation following Izmit earthquake, 17 August 1999, *Bull. Seism. Soc. Am.*, 92, 194-207, 2002.
40. Feigl, K.L., F. Sarti, H. Vadon, P. Durand, S. McClusky, S. Ergintav, R. Bürgmann, A. Rigo, D. Massonnet, and R. Reilinger, Estimating slip distribution for the Izmit mainshock from coseismic GPS, ERS-1, RADARSAT and SPOT measurements, *Bull. Seism. Soc. Am.*, 92, 138-160, 2002.
41. Hearn, E.H., R. Bürgmann, and R. Reilinger, Dynamics of Izmit earthquake postseismic deformation and loading of the Düzce earthquake hypocenter, *Bull. Seism. Soc. Am.*, 92, 172-193, 2002.
42. Price, E.J., and Bürgmann, R., Interactions between the Landers and Hector Mine earthquakes from space geodesy, boundary element modeling, and time-dependent friction, *Bull. Seism. Soc. Am.*, 92, 1450-1469, 2002.

2003:

43. Battaglia, M., D. Zuliani, D. Pascutti, A. Michelini, I. Marson, M.H. Murray, and R. Bürgmann, Network Assesses Earthquake Potential in Italy's Southern Alps, *Eos*, 84 (28), 262-264, 2003.
44. d'Alessio, M.A., A.E. Blythe, and R. Bürgmann, No frictional heat along the San Gabriel fault, California: Evidence from fission track thermochronology, *Geology*, 31, 541-544, 2003.
45. Hreinsdóttir, S., J.T. Freymueller, H. Fletcher, C.F. Larsen, and R. Bürgmann, Coseismic slip distribution of the 2002 Mw 7.9 Denali fault earthquake, Alaska, determined from GPS measurements, *Geophys. Res. Lett.*, 30, doi:10.1029/2003GL017447, 2003.
46. Kogan, M.G., R. Bürgmann, N.F. Vasilenko, C.H. Scholz, R.W. King, A.I. Ivashchenko, D.I. Frolov, G.M. Steblov, C.U. Kim, and S.G. Egorov, The 2000 Mw 6.8 Ulegorsk earthquake and regional plate boundary deformation of Sakhalin from geodetic data, *Geophys. Res. Lett.*, 30, doi:10.1029/2002GL016399, 2003.
47. Lynch, J.C., R. Bürgmann, M.A. Richards, and R.M. Ferencz, When faults communicate: viscoelastic coupling and earthquake clustering in a simple two-fault strike-slip system, *Geophys. Res. Lett.*, 30, doi:10.1029/2002-GL016765, 2003.

48. Manaker, D., Bürgmann, R., Prescott, W., and Langbein, J., Distribution of interseismic slip rates and the potential for significant earthquakes on the Calaveras fault, central California, *J. Geophys. Res.*, *108*, doi:10.1029/2002JB001749, 2003.
49. Schmidt, D.A., and Bürgmann, R., Time dependent land uplift and subsidence in the Santa Clara valley, California, from a large InSAR data set, *J. Geophys. Res.*, *108*, doi:10.1029/2002JB002267, 2003.
50. Steblov, G., M. Kogan, R.W. King, C.H. Scholz, R. Bürgmann, and D. Frolov, Imprint of the North American Plate in Siberia Revealed by GPS, *Geophys. Res. Lett.*, *30*, doi:10.1029/2003GL017805, 2003.

2004:

51. Battaglia, M., M.H. Murray, E. Serpelloni, and R. Bürgmann, The Adriatic region: an independent microplate within the Africa-Eurasia collision zone., *Geophys. Res. Lett.*, *31*, (9), doi:10.1029/2004GL019723, 2004.
52. Blythe, A.E., M.A. d'Alessio, and R. Bürgmann, Constraining the exhumation and burial history of the SAFOD pilot hole at Parkfield, California, with apatite fission track and (U-Th)/He thermochronometry, *Geophys. Res. Lett.*, *31* (L15S16), doi: 10.1029/2003GL019407, 2004.
53. Chandrasekhar, D.V., D.C. Mishra, B. Singh, V. Vijayakumar, and R. Bürgmann (2004), Source parameters of the Bhuj earthquake, India of January 26, 2001 from height and gravity changes, *Geophys. Res. Lett.*, *31* (19), doi:10.1029/2004GL020768.
54. Ferretti, A., F. Novali, R. Bürgmann, G. Hilley, and C. Prati (2004), InSAR Permanent Scatterer Analysis Reveals Ups and Downs in the San Francisco Bay Area, *Eos*, *85* (34), 317, 324.
55. Freed, A.M., and R. Bürgmann (2004), Evidence of powerlaw flow in the Mojave desert mantle, *Nature*, *430* (doi:10.1038/nature02784), 548-551.
56. Gahalaut, V.K., and Bürgmann, R.,(2004) Constraints on the source parameters of 26 January 2001 Bhuj, India earthquake from satellite images, *Bull. Seism. Soc. Am.*, *94*, 6, 2407–2413.
57. Hilley, G.E., R. Bürgmann, A. Ferretti, F. Novali, and F. Rocca (2004) Dynamics of slow-moving landslides from permanent scatterer analysis, *Science*, *304*, 1952-1955.
58. Rolandone, F., R. Bürgmann, and R.M. Nadeau (2004), The evolution of the seismic-aseismic transition during the earthquake cycle: Constraints from the time-dependent depth distribution of aftershocks, *Geophys. Res. Lett.*, *31*, doi:10.1029/2004GL21379.
59. To, A., R. Bürgmann, and F. Pollitz (2004), Postseismic deformation and stress changes following the 1819 Rann of Kachchh, India earthquake: Was the 2001 Bhuj earthquake a triggered event?, *Geophys. Res. Lett.*, *31*, doi:10.1029/2004GL020220.
60. Zhang, P., Z.K. Shen, M. Wang, W. Gan, R. Bürgmann, P. Molnar, Z. Niu, J. Sun, Q. Wang, J. Wu, H. Sun, and X. You (2004), Continuous Deformation of the Tibetan Plateau from GPS, *Geology*, *32* (9), 809-812.

2005:

61. Banerjee, P., Pollitz, F., and Bürgmann, R. (2005), The size and duration of the Sumatra-Andaman earthquake from far-field static offsets: *Science*, *308*, 10.1126/science.1113746.
62. Bürgmann, R., M.G. Kogan, G.M. Steblov, G. Hilley, V.E. Levin, and T. Apel (2005), Interseismic Coupling and Asperity Distribution Along the Kamchatka Subduction Zone, *J. Geophys. Res.*, *110*, doi:10.1029/2005JB003648.
63. d'Alessio, M.A., I.A. Johanson, R. Bürgmann, D.A. Schmidt, and M.H. Murray (2005), Slicing up the San Francisco Bay Area: Block kinematics and fault slip rates from GPS-derived surface velocities, *J. Geophys. Res.*, *110*, doi:10.1029/2004JB003496.
64. Hearn, E.H., and R. Bürgmann, (2005) The effect of elastic layering on inversions of GPS data for earthquake slip and stress changes, *Bull. Seism. Soc. Am.*, *95*, 5, 1637-1653.

65. Hilley, G.E., R. Bürgmann, P. Molnar, and P. Zhang (2005), Bayesian inference of plastosphere viscosities near the Kunlun Fault, northern Tibet, *Geophys. Res. Lett.*, 32 (L01302), doi:10.1029/2004GL021658.
66. Johanson, I.A., and R. Bürgmann (2005), Creep and quakes on the northern transition zone of the San Andreas fault from GPS and InSAR data, *Geophys. Res. Lett.*, 32, (L14306), doi:10.1029/2005GL023150.
67. Manaker, D.M., A.J. Michael, and R. Bürgmann (2005), Subsurface structure and mechanics of the Calaveras Hayward fault stepover from three-dimensional Vp and seismicity, San Francisco Bay region, California, *Bull. Seism. Soc. Am.*, 95 (2), 446-470.
68. Schmidt, D. A., Bürgmann, R., Nadeau, R.M., and d'Alessio, M.A. (2005), Distribution of aseismic slip-rate on the Hayward fault inferred from seismic and geodetic data, *J. Geophys. Res.*, 110, (B08406), doi:10.1029/2004JB003397.
69. Shen, Z.K., Q. Wang, R. Bürgmann, Y. Wan, and J. Ning (2005), Pole tide modulation of tremor and slow slip events at circum-pacific subduction zones, *Bull. Seism. Soc. Am.*, 95, 5, 2009-2015.
70. Shen, Z. K., J. Lü, M. Wang, and R. Bürgmann (2005), Contemporary crustal deformation around the southeast borderland of the Tibetan Plateau, *J. Geophys. Res.*, 110, (B11409), doi:10.1029/2004JB003421.

2006:

71. Apel, E., R. Bürgmann, G. Steblov, N. Vasilenko, R. King, and A. Prytkov (2006), Active tectonics of northeast Asia: Using GPS velocities and block modeling to test independent Okhotsk plate motion, *Geophys. Res. Lett.*, 33, doi:10.1029/2006GL026077.
72. Bürgmann, R., G. Hilley, A. Ferretti, and F. Novali (2006), Resolving vertical tectonics in the San Francisco Bay area from GPS and Permanent Scatterer InSAR analysis, *Geology*, 34, 221-224.
73. d'Alessio, M. A., C. Williams, and R. Bürgmann (2006), Frictional strength heterogeneity and surface heat flow; Implications for the strength of the creeping San Andreas fault, *J. Geophys. Res.*, 111, doi:10.1029/2005JB003780.
74. Freed, A.M., Bürgmann, R., Calais, E., Freymueller, J.T., and Hreinsdóttir, S., (2006), Implications of deformation following the 2002 Denali, Alaska earthquake for postseismic relaxation processes and lithospheric rheology: *J. Geophys. Res.*, 111, doi:10.1029/2005JB003894.
75. Freed, A. M., R. Bürgmann, E. Calais, and J. T. Freymueller (2006), Stress-dependent power-law flow in the upper mantle following the 2002 Denali, Alaska, earthquake, *Earth Planet. Sci. Lett.*, 252, doi:10.1016/j.epsl.2006.1010.1011.
76. Hreinsdóttir, S., Freymueller, J.T., Bürgmann, R., and Mitchell, J. (2005), Coseismic deformation of the 2002 Denali fault earthquake: Insights from GPS measurements: *J. Geophys. Res.*, 110, doi:10.1029/2005JB003676
77. Hsu, L., and R. Bürgmann (2006), Surface creep along the Longitudinal Valley fault, Taiwan from InSAR measurements, *Geophys. Res. Lett.*, 33, L06312, doi:10.1029/2005GL024624.
78. Johanson, I. A., E. J. Fielding, F. Rolandone, and R. Bürgmann (2006), Coseismic and postseismic slip of the 2004 Parkfield earthquake from space-geodetic data, *Bull. Seism. Soc. Am.*, 96, 269-282.
79. Johnson, K. M., R. Bürgmann, and K. Larson (2006), Frictional properties on the San Andreas fault near Parkfield, California, inferred from models of afterslip following the 2004 earthquake, *Bull. Seism. Soc. Am.*, 96, 321-338.
80. Owen, S. E., and R. Bürgmann (2006), An increment of volcano collapse: Kinematics of the 1975 Kalapana, Hawaii, earthquake, *J. Volcanol. Geoth. Res.*, 150, 163-185.
81. Poland, M. P., R. Bürgmann, D. Dzurisin, M. Lisowski, T. Masterlark, and S. Owen (2006), Constraints on the mechanism of long-term, steady subsidence at Medicine Lake volcano, northern California, from GPS, leveling, and InSAR, *J. Volcanol. Geoth. Res.*, 150, doi:10.1016/j.jvolgeores.2005.1007.1007.

82. Pollitz, F. F., P. Banerjee, R. Bürgmann, M. Hashimoto, and N. Chhoosakul (2006), Stress changes along the Sunda trench following the 26 December 2004 Sumatra-Andaman and 28 March 2005 Nias earthquakes, *Geophys. Res. Lett.*, 33, L06309, doi:10.1029/2005GL024558.
83. Pollitz, F., R. Bürgmann, and P. Banerjee (2006), Postseismic relaxation following the great 2004 Sumatra-Andaman earthquake on a compressible self-gravitating Earth, *Geophysical Journal International*, 167, doi: 10.1111/j.1365-1246X.2006.03018.x.
84. Rolandone, F., D. S. Dreger, M. H. Murray, and R. Bürgmann (2006), Coseismic Slip Distribution of the 2003 Mw 6.5 San Simeon earthquake, California, determined from GPS measurements and seismic waveform data, *Geophys. Res. Lett.*, 33, doi:10.1029/2006GL027079.
85. Schmidt, D. A., and R. Bürgmann (2006), InSAR constraints on the source parameters of the 2001Bhuj earthquake, *Geophys. Res. Lett.*, 33, doi:10.1029/2005GL025109.

2007:

86. Banerjee, P., F. F. Pollitz, B. Nagarajan, and R. Bürgmann (2007), Coseismic slip distributions of the 26 December 2004 Sumatra-Andaman and 28 March 2005 Nias earthquakes from GPS static offsets, *Bull. Seism. Soc. Am.*, 97, S86-S102.
87. Rhie, J., D. S. Dreger, R. Bürgmann, and B. Romanowicz (2007), Slip of the 2004 Sumatra-Andaman earthquake from joint inversion of long period global seismic waveforms and GPS static offsets, *Bull. Seism. Soc. Am.*, 97, S115-S127.
88. Freed, A. M., S. T. Ali, and R. Bürgmann (2007), Evolution of stress in Southern California for the past 200 years from coseismic, postseismic and interseismic stress changes, *Geophysical Journal International*, 169, doi: 10.1111/j.1365-1246X.2007.03391.x.
89. Handy, M. R., G. Hirth, and R. Bürgmann (2007), Continental fault structure and rheology from the frictional-to-viscous transition downward, in *Tectonic Faults: Agents of Change on a Dynamic Earth*, edited by M. R. Handy, et al., pp. 139-181, MIT Press, Cambridge, MA.
90. Tullis, T. E., R. Bürgmann, M. Cocco, G. Hirth, G. C. P. King, O. Oncken, K. Otsuki, J. R. Rice, A. Rubin, P. Segall, S. A. Shapiro, and C. A. J. Wibberley (2007), Rheology of Fault Rocks and Their Surroundings, in *Tectonic Faults: Agents of Change on a Dynamic Earth*, edited by M. R. Handy, et al., pp. 183-204, MIT Press, Cambridge, MA.
91. Sol, S., A. Meltzer, R. Bürgmann, R. D. van der Hilst, R. King, Z. Chen, P. Koons, E. Lev, Y. P. Liu, B. P. K. Zeitler, X. Zhang, J. Zhang, and B. Zurek (2007), Geodynamics of the southeastern Tibetan plateau from seismic anisotropy and geodesy, *Geology*, 35, 563-566.
92. Johnson, K., G. Hilley, and R. Bürgmann (2007), Influence of lithosphere viscosity structure on estimates of fault slip rate in the Mojave region of the San Andreas fault system, *Journal of Geophysical Research*, 112, doi:10.1029/2006JB004842.
93. Freed, A. M., R. Bürgmann, and T. A. Herring (2007), Far-reaching transient motions after Mojave earthquakes require broad mantle flow beneath a strong crust, *Geophys. Res. Lett.*, 34, doi:10.1029/2007GL030959.
94. Funning, G., R. Bürgmann, A. Ferretti, F. Novali, and A. Fumagalli (2007), Creep on the Rodgers Creek fault from PS-InSAR measurements, *Geophys. Res. Lett.*, 34, doi:10.1029/2007GL030836.
95. Minson, S. E., D. S. Dreger, R. Bürgmann, H. Kanamori, and K. M. Larson (2007), Seismically and geodetically determined nondouble-couple source mechanisms from the 2000 Miyakejima volcanic earthquake swarm, *Journal of Geophysical Research*, 112, doi:10.1029/2006JB004847.
96. Cannon, E. C., R. Bürgmann, A. J. Crone, M. N. Machette, and R. L. Dart (2007), Map and data for Quaternary faults and fault systems on the Island of Hawaii, U .S. Geological Survey Open-File Report, 2007-1284 (<http://pubs.usgs.gov/of/2007/1284/>), 1-81.

2008:

97. Templeton, D. C., R. M. Nadeau, and R. Bürgmann (2008), Behavior of repeating earthquake sequences in Central California and the implications for subsurface fault creep, *Bull. Seis. Soc. Am.*, 98, 52-65.

98. Pollitz, F., P. Banerjee, K. Grijalva, B. Nagarajan, and R. Bürgmann (2008), Effect of 3D viscoelastic structure on postseismic relaxation from the 2004 M = 9.2 Sumatra earthquake *Geophysical Journal International*, 172, 189-204.
 99. Goldfinger, C., K. Grijalva, R. Bürgmann, A. E. Morey, J. E. Johnson, C. H. Nelson, J. Gutiérrez-Pastor, A. Ericsson, E. Karabanov, J. D. Chaytor, J. Patton, and E. Gràcia (2008), Late Holocene rupture of the Northern San Andreas fault and possible stress linkage to the Cascadia subduction zone, *Bull. Seis. Soc. Am.*, 98, 861-889.
 100. Bürgmann, R., and G. Dresen (2008), Rheology of the lower crust and upper mantle: Evidence from rock mechanics, geodesy and field observations, *Ann. Rev. Earth Plan. Sci.*, 36, doi:10.1146/annurev.earth.36.031207.124326, 531-567.
 101. Motagh, M., R. Wang, T. R. Walter, R. Bürgmann, E. Fielding, J. Anderssohn, and J. Zschau (2008), Coseismic slip model of the 2007 August Pisco earthquake (Peru) as constrained by Wide Swath radar observations, *Geophys. J. Int.*, 174, doi: 10.1111/j.1365-1246X.2008.03852.x.
 102. Rolandone, F., Bürgmann, R., Agnew, D.C., Johanson, I.A., Templeton, D.C., d'Alessio, M.A., Titus, S.J., DeMets, C., and Tikoff, B., 2008, Aseismic slip and fault-normal strain along the central creeping section of the San Andreas fault: *Geophys. Res. Lett.*, v. 35, p. doi:10.1029/2008GL034437.
 103. Banerjee, P., Bürgmann, R., Nagarajan, B., and Apel, E., 2008, Intraplate deformation of the Indian subcontinent: *Geophys. Res. Lett.*, v. 35, p. doi:10.1029/2008GL035468.
 104. Schmidt, D. A., and R. Bürgmann (2008), Predicted reversal and recovery of surface creep on the Hayward fault following the 1906 San Francisco earthquake, *Geophys. Res. Lett.*, 35, L19205, doi:10.1029/2008GL035270.
 105. Ryder, I., and R. Bürgmann (2008), Spatial variations in slip deficit on the central San Andreas fault from InSAR, *Geophysical Journal International*, 175, doi: 10.1111/j.1365-246X.2008.03938.x
 106. Sun, J., Z. Shen, X. Xu, and R. Bürgmann (2008), Synthetic normal faulting of the 9 January 2008 Nima (Tibet) earthquake from conventional and along-track SAR interferometry, *Geophys. Res. Lett.*, 35, doi:10.1029/2008GL035691.
- 2009:
107. Templeton, D. C., R. M. Nadeau, and R. Bürgmann (2009), Distribution of postseismic slip on the Calaveras fault, California, following the 1984 M6.2 Morgan Hill earthquake, *Earth and Planetary Science Letters*, 277, doi:10.1016/j.epsl.2008.1009.1024.
 108. Shelly, D. R., W. L. Ellsworth, T. Ryberg, C. Haberland, G. S. Fuis, J. Murphy, R. M. Nadeau, and R. Bürgmann (2009), Precise location of San Andreas Fault tremors near Cholame, CA using seismometer clusters: slip on the deep extension of the fault?, *Geophys. Res. Lett.*, 36, doi:10.1029/2008GL036367.
 109. Hilley, G. E., K. M. Johnson, M. Wang, Z.-K. Shen, and R. Bürgmann (2009), Earthquake-cycle deformation and fault slip rates in Northern Tibet, *Geology*, 31, doi:10.1130/G25157A.25151.
 110. *Bürgmann, R. (2009), Imperfect dominoes (News & Views article), *Nature Geoscience*, 2, doi:10.1038/ngeo1422.
 111. Biggs, J., R. Bürgmann, J. Freymueller, Z. Lu, B. E. Parsons, I. Ryder, G. Schmalzle, and T. Wright (2009), The postseismic response to the 2002 M7.9 Denali Fault Earthquake: Constraints from InSAR 2003-2005, *Geophysical Journal International*, 176, doi: 10.1111/j.1365-1246X.2008.03932.x.
 112. Fielding, E.J., Lundgren, P.R., Bürgmann, R., and Funning, G.J. (2009), Shallow fault-zone dilatancy recovery after the 2003 Bam, Iran earthquake: *Nature*, 458, doi:10.1038/nature07817.
 113. Johnson, K.M., Bürgmann, R., and Freymueller, J.T., (2009), Coupled afterslip and viscoelastic flow following the 2002 Denali Fault, Alaska Earthquake, *Geophys. J. Int.*, 176(3), doi: 10.1111/j.1365-1246X.2008.04029.x

114. Chandrasekhar, D.V., Bürgmann, R., Reddy, C.D., Sunil, P.S., and Schmidt, D.A., 2009, Weak Mantle in NW India Probed by Geodetic Measurements Following the 2001 Bhuj Earthquake: *Earth Planet. Sci. Lett.*, v. 280, p. doi:10.1016/j.epsl.2009.01.039.
115. Rolandone, F., Bürgmann, R., Agnew, D.C., Johanson, I.A., Templeton, D.C., d'Alessio, M.A., Titus, S.J., DeMets, C., and Tikoff, B. (2009), Reply to Comment by J.C. Savage on "Aseismic slip and fault-normal strain along the creeping section of the San Andreas Fault, *Geophys. Res. Lett.*, 36(L13306), doi:10.1029/2009GL039167.
116. Shen, Z.-K., Sun, J., Zhang, P., Wan, Y., Wang, M., Bürgmann, R., Zeng, Y., Gan, W., Liao, H., and Wang, Q., (2009), Slip maxima at fault junctions and rupturing of barriers during the 2008 Wenchuan earthquake, *Nat. Geosci.*, 2, doi:10.1038/NGEO1636.
117. Jolivet, R., Bürgmann, R., and N. Houlié, (2009), Geodetic exploration of the elastic properties across and within the northern San Andreas fault zone, *Earth and Planetary Science Letters*, 288(1-2), doi:10.1016/j.epsl.2009.1009.1014.
118. Thomas, A. M., Nadeau, R. M., and Bürgmann, R., (2009), Tremor-tide correlations and near-lithostatic pore pressure on the deep San Andreas fault *Nature*, v. 462, p. doi:10.1038/nature08654.
- 2010:
119. Ryder, I., Bürgmann, R. & Sun, J., (2010), Tandem afterslip on connected fault planes following the 2008 Nima-Gaize (Tibet) earthquake, *J. Geophys. Res.*, 114(B03404), doi:10.1029/2009JB006423.
120. Chen, K. H., R. Bürgmann, and R. M. Nadeau (2010), Triggering effect of M 4–5 earthquakes on the earthquake cycle of repeating events at Parkfield, California *Bull. Seismol. Soc. Am.*, 100(2), doi: 10.1785/0120080369.
121. Shearer, P.M. & Bürgmann, R., (2010), Lessons learned from the 2004 Sumatra-Andaman megathrust rupture *Ann. Rev. Earth Plan. Sci.*, 38, doi:10.1146/annurev-earth-040809-152537.
122. Johanson, I.A. & Bürgmann, R., (2010), Coseismic and postseismic slip from the 2003 San Simeon earthquake and their effects on backthrust slip and the 2004 Parkfield earthquake, *J. Geophys. Res.*, 115, doi:10.1029/2009JB006599.
123. Chen, K.H., Bürgmann, R., Nadeau, R.M., Chen, T. & Lapusta, N., 2010. Postseismic variations in seismic moment and recurrence interval of repeating earthquakes, *Earth and Planetary Science Letters*, 299, doi:10.1016/j.epsl.2010.1008.1027.
124. Freed, A.M., Herring, T.A. & Bürgmann, R., 2010. Steady-state laboratory flow laws alone fail to explain postseismic observations, *Earth and Planetary Science Letters*, 300, doi:10.1016/j.epsl.2010.1010.1005.
125. Serpelloni, E., Bürgmann, R., Anzidei, M., Baldi, P., Mastrolembo, B., and Boschi, E., 2010, Strain accumulation across the Messina Straits and kinematics of Sicily and Calabria from GPS data and dislocation modeling: *Earth Planet. Sci. Lett.*, 298, doi:10.1016/j.epsl.2010.1008.1005.
126. Quigley, K. C., R. Bürgmann, C. Giannico, and F. Novali (2010), Seasonal Acceleration and Structure of Slow Moving Landslides in the Berkeley Hills, Calif. *Geol. Surv. Spec. Report 219*, Proceedings of the Third Conference on Earthquake Hazards in the Eastern San Francisco Bay Area; edited by Keith Knudsen, 169-178.
- 2011:
127. Titus, S. J., Dyson, M., DeMets, C., Tikoff, B., Rolandone, F., and Bürgmann, R., 2011, Geologic versus geodetic deformation adjacent to the San Andreas fault, central California: *Geol. Soc. Amer. Bull.*, doi:10.1130/B30150.1.
128. Wiseman, K., and Bürgmann, R., 2011, Stress and seismicity changes on the Sunda megathrust preceding the 2007 Mw 8.4 earthquake: *Bull. Seismol. Soc. Am.*, 101, doi: 10.1785/0120100063.
129. Sun, J., Johnson, K. M., Cao, Z., Shen, Z. K., Bürgmann, R., and Xu, X., 2010, Mechanical constraints on inversion of co-seismic geodetic data for fault slip and geometry: example from

- InSAR observation of the 6 October 2008 Mw 6.3 Dangxiong-Yangyi (Tibet) earthquake: *J. Geophys. Res.*, 116, B01406, doi:10.1029/2010JB007849.
130. Audet, P., and R. Bürgmann (2011), Dominant role of tectonic inheritance in supercontinent cycles, *Nature Geoscience*, 4, doi:10.1038/NGEO1080.
 131. *Bürgmann, R., and P. Audet, 2011, Continental Jelly (News & Views article), *Nature*, 471, 312-313.
 132. Pollitz, F. F., Brooks, B., Tong, X., Bevis, M. G., Foster, J. H., Bürgmann, R., Smalley, R., Vigny, C., Socquet, A., Ruegg, J.-C., Campos, J., Barrientos, S., and Parra, H., (2011), Coseismic slip distribution of the February 27, 2010 Mw 8.8 Maule, Chile earthquake, *Geophys. Res. Lett.*, 38(L09309), doi: 10.1029/2011GL047065.
 133. Hammond, W. C., Brooks, B. A., Bürgmann, R., Heaton, T., Jackson, M., Lowry, A. R., and Anandakrishnan, S., 2011, Scientific value of real-time Global Positioning System data *Eos*, v. 92, no. 15, p. 125-132.
 134. Wiseman, K., P. Banerjee, K. Sieh, R. Bürgmann, and D. H. Natawidjaja (2011), Another Potential Source of Destructive Earthquakes and Tsunami Offshore of Sumatra, *Geophys. Res. Lett.*, 38(L10311), doi:10.1029/2011GL047226.
 135. Pollitz, F., R. Bürgmann, and P. Banerjee (2011), Geodetic Slip Model of the 2011 M9.0 Tohoku Earthquake, *Geophys. Res. Lett.*, 38(L00G08), doi:10.1029/2011GL048632.
 136. Ryder, I., R. Bürgmann, and F. Pollitz (2011), Lower crustal relaxation beneath the Tibetan Plateau and Qaidam Basin following the 2001 Kokoxili earthquake, *Geophys. J. Int.*, 187, 2, doi: 10.1111/j.1365-1246X.2011.05179.x.
- 2012:
137. Shirzaei, M., and R. Bürgmann (2012), Topography correlated atmospheric delay correction in radar interferometry using wavelet transforms, *Geophys. Res. Lett.*, 39(L01305), doi:10.1029/2011GL049971.
 138. Ryder, I., A. Rietbrock, K. Kelson, R. Bürgmann, M. Floyd, A. Socquet, C. Vigny, and D. Carrizo (2012), Large extensional aftershocks in the continental forearc triggered by the 2010 Maule earthquake, Chile, *Geophysical Journal International*, DOI: 10.1111/j.1365-1246X.2011.05321.x.
 139. Thomas, A. M., R. Bürgmann, D. R. Shelly, N. M. Beeler, and M. L. Rudolph (2012), Tidal triggering of low frequency earthquakes near Parkfield, CA: Implications for fault mechanics within the brittle-ductile transition, *J. Geophys. Res.*, 117(B05301), doi:10.1029/2011JB009036.
 140. Shirzaei, M., R. Bürgmann, O. Oncken, T. R. Walter, P. Victor, and O. Ewiak (2012), Response of forearc crustal faults to the megathrust earthquake cycle: InSAR evidence from Mejillones Peninsula, Northern Chile, *Earth and Planetary Science Letters*, 333-334, doi:10.1016/j.epsl.2012.1004.1001.
 141. Pollitz, F., R. Bürgmann, and W. Thatcher (2012), Illumination of rheological mantle heterogeneity by the M7.2 2010 El Mayor-Cucapah earthquake, *Geochem. Geophys. Geosystems*, 13(Q06002), doi:10.1029/2012GC004139.
 142. Wen, Y., Z. Li, C. Xu, I. Ryder, and R. Bürgmann (2012), Postseismic motion after the 2001 Mw 7.8 Kokoxili earthquake in Tibet observed by InSAR time series, *Journal of Geophysical Research*, 117(B8), doi:10.1029/2011JB008514.
 143. Wiseman, K., P. Banerjee, R. Bürgmann, K. Sieh, D. S. Dreger, and I. Hermawan (2012), Source model of the 2009 Mw 7.6 Padang intra-slab earthquake and its effect on the Sunda megathrust, *Geophys. J. Int.*, 190, doi: 10.1111/j.1365-1246X.2012.05600.x.
 144. Tesauro, M., P. Audet, M. Kaban, R. Bürgmann, and S. Cloetingh (2012), The effective elastic thickness of the continental lithosphere: Comparison between rheological and inverse approaches, *Geochem. Geophys. Geosystems*, 13(9), doi:10.1029/2012GC004162.

145. 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(B09405), doi:10.1029/2012JB009365.
146. Pollitz, F., R. S. Stein, V. Sevilgen, and R. Bürgmann (2012), The 11 April 2012 M=8.6 East Indian Ocean earthquake triggered large aftershocks worldwide, *Nature*, doi: 10.1038/nature11504.
147. Wiseman, K., and R. Bürgmann (2012), Stress triggering of the great Indian Ocean strike-slip earthquakes in a diffuse plate boundary zone, *Geophys. Res. Lett.*, 39(L22304), doi:10.1029/2012GL053954.
148. *Bürgmann, R. (2012), Review of the book 'Structural geology algorithms: vectors and tensors' by Richard W. Allmendinger, Nestor Cardozo and Donald M. Fisher, *Math. Geosci.*, DOI:10.1007/s11004-11012-19433-11002.

2013:

149. Reddy, C. D., P. S. Sunil, R. Bürgmann, D. V. Chandrasekhar, and T. Kato (2013), Postseismic relaxation due to Bhuj earthquake on January 26, 2001: possible mechanisms and processes, *Natural Hazards*, 65(2), doi: 10.1007/s11069-11012-10184-11067.
150. Chen, K. H., R. Bürgmann, and R. M. Nadeau (2013), Do earthquakes talk to each other? Triggering and interaction of repeating sequences at Parkfield, *Journal of Geophysical Research*, 118, doi:10.1029/2012JB009486.
151. Turner, R., R. M. Nadeau, and R. Bürgmann (2013), Aseismic Slip and Fault Interaction from Repeating Earthquakes in the Loma Prieta Aftershock Zone, *Geophys. Res. Lett.*, 40(1-5), doi:10.1029/2012GL054252.
152. Fielding, E. J., A. Sladen, Z. Li, J.-P. Avouac, R. Bürgmann, and I. Ryder (2013), 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, *Geophysical Journal International*, 194(2), doi:10.1093/gji/ggt1155.
153. Pollitz, F. F., A. G. Wech, H. Kao, and R. Bürgmann (2013), Annual modulation of non-volcanic tremor in northern Cascadia, *J. Geophys. Res.*, 118, doi:10.1002/jgrb.50181.
154. Shirzaei, M., and R. Bürgmann (2013), Time-dependent model of creep on the Hayward fault from joint inversion of 18 years of InSAR and surface creep data, *J. Geophys. Res.*, 118, doi:10.1002/jgrb.50149.
155. Shirzaei, M., T. Taira, and R. Bürgmann (2013), Implications of recent asperity failures and aseismic creep for time-dependent earthquake hazard on the Hayward fault, *Earth and Planetary Science Letters*, 371-372, doi:10.1016/j.epsl.2013.1004.1024.
156. Huang, M.-H., D. Dreger, R. Bürgmann, S.-H. Yoo, and M. Hashimoto (2013), Joint inversion of seismic and geodetic data for the source of the 4th March 2010 Mw 6.3 Jia-Shian, SW Taiwan, earthquake, *Geophysical Journal International*, 193(3), doi:10.1093/gji/ggt1058.
157. Shirzaei, M., T. R. Walter, and R. Bürgmann (2013), Coupling of Hawaiian volcanoes during mantle-driven surge, *Geophys. Res. Lett.*, 40, doi:10.1002/grl.50470.
158. Amos, C. B., S. J. Brownlee, D. H. Rood, G. B. Fisher, R. Bürgmann, P. R. Renne, and A. S. Jayko (2013), Chronology of tectonic, geomorphic, and volcanic interactions and the tempo of fault slip near Little Lake, California, *Geological Society of America Bulletin*, 125(7-8), doi: 10.1130/B30803.30801.
159. Shirzaei, M., R. Bürgmann, J. Foster, T. R. Walter, and B. A. Brooks (2013), Aseismic deformation across the Hilina fault system, Hawaii, revealed by wavelet analysis of InSAR and GPS time series, *Earth and Planetary Science Letters*, 376(0), doi: 10.1016/j.epsl.2013.1006.1011.
160. Guilhem, A., R. Bürgmann, A. M. Freed, and S. A. Tabrez (2013), Testing the accelerating moment release (AMR) hypothesis in areas of high stress, *Geophysical Journal International*, 195(2), doi: 10.1093/gji/ggt1298.

161. Thomas, A. M., R. Bürgmann, and D. Dreger (2013), Incipient faulting near Lake Pillsbury, CA and the role of accessory faults in plate boundary evolution, *Geology*, *41*, doi:10.1130/G34588.34581.
162. Sun, J., Z. K. Shen, R. Bürgmann, and X. Xu (2013), Coseismic slip distribution of the March 24, 2011 Tarlay (Myanmar) Mw 6.8 earthquake from ALOS PALSAR interferometry, *Bull. Seismol. Soc. Am.*, *103*(5), doi: 10.1785/0120120365.
163. Bürgmann, R., and W. Thatcher (2013), Space geodesy: a revolution in crustal deformation measurements of tectonic processes, in *The Web of Geological Sciences: Advances, Impacts, and Interactions*, edited by M. E. Bickford, *Geological Society of America Special Paper* 500, doi:10.1130/2013.2500(12).
164. Sun, J., Z.-K. Shen, R. Bürgmann, M. Wang, L. Chen, and X. Xu (2013), A three-step maximum a posteriori probability method for InSAR data inversion of coseismic rupture with application to the 14 April 2010 Mw 6.9 Yushu, China, earthquake, *Journal of Geophysical Research*, *118*(8), 4599-4627, doi:10.1002/jgrb.50244.
165. Beeler, N. M., A. Thomas, R. Bürgmann, and D. Shelly (2013), Inferring fault rheology from low-frequency earthquakes on the San Andreas, *Journal of Geophysical Research*, *118*(11), doi:10.1002/2013JB010118.
- 2014:
166. Bie, L., I. Ryder, S. E. J. Nippres, and R. Bürgmann (2014), Coseismic and postseismic activity associated with the 2008 Mw 6.3 Damxung earthquake, Tibet, constrained by InSAR, *Geophysical Journal International*, *196*(2), doi:10.1093/gji/ggt1444.
167. Pollitz, F., R. Bürgmann, R. S. Stein, and V. Sevilgen (2014), The profound reach of the 11 April 2012 M8.6 Indian Ocean earthquake: short-term global triggering followed by a long-term global shadow, *Bull. Seismol. Soc. Am.*, *104*(2), doi:10.1785/0120130078.
168. Bürgmann, R., and C. D. Chadwell (2014), Seafloor geodesy, *Annu. Rev. Earth Planet. Sci.*, *42*, 509-534, doi:10.1146/annurev-earth-060313-054953.
169. Jiang, Z., M. Wang, Y. Wang, Y. Wu, S. Che, Z.-K. Shen, R. Bürgmann, J. Sun, Y. Yang, and H. L. Li (2014), GPS constrained coseismic source and slip distribution of the 2013 Mw6.6 Lushan, China, earthquake and its tectonic implications, *Geophysical Research Letters*, *41*(2), doi:10.1002/2013GL058812.
170. Huang, M.-H., R. Bürgmann, and A. M. Freed (2014), Probing the lithospheric rheology across the eastern margin of the Tibetan Plateau, *Earth and Planetary Science Letters*, *396*, 88-96, doi:10.1016/j.epsl.2014.04.003.
171. Amos, C. B., P. Audet, W. C. Hammond, R. Bürgmann, I. A. Johanson, and G. Blewitt (2014), Contemporary uplift and seismicity in central California driven by groundwater depletion, *Nature*, *509*, 483-486, doi:10.1038/nature13275.
172. Meng, L., J.-P. Ampuero, and R. Bürgmann (2014), The 2013 Okhotsk Deep-Focus Earthquake: Rupture Beyond the Metastable Olivine Wedge and Thermally-Controlled Rise Time near the Edge of a Slab, *Geophys. Res. Lett.*, *14*, doi:10.1002/2014GL059968.
173. Audet, P., and R. Bürgmann (2014), Possible control of subduction zone slow-earthquake periodicity by silica enrichment, *Nature*, *510*(7505), 389-392, doi:10.1038/nature13391.
174. Ventura, B. M., E. Serpelloni, A. Argnani, A. Bonforte, R. Bürgmann, M. Anzidei, P. Baldi, and G. Puglisi (2014), Fast geodetic strain-rates in eastern Sicily (southern Italy): new insights into block tectonics and seismic potential in the area of the great 1693 earthquake, *Earth Planet. Sci. Lett.*, *404*, 77-88, doi:10.1016/j.epsl.2014.07.025.
175. Chaussard, E., R. Bürgmann, M. Shirzaei, E. Fielding, and B. Baker (2014), Predictability of hydraulic head changes and characterization of aquifer system and fault properties from InSAR-derived ground deformation, *J. Geophys. Res.*, *119*, doi:10.1002/2014JB011266.
176. *Bürgmann, R. (2014), Warning signs of the Iquique earthquake, *Nature*, doi:10.1038/nature13655.

177. Milillo, P., E. J. Fielding, W. H. Schulz, B. Delbridge, and R. Bürgmann (2014), COSMO-SkyMed Spotlight interferometry over rural areas: The Slumgullion landslide in Colorado, USA, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 7(7), 2919-2926, doi:10.1109/JSTARS.2014.2345664.
178. Shirzaei, M., R. Bürgmann, N. Uchida, Y. Hu, F. Pollitz, and T. Matsuzawa (2014), Seismic versus aseismic slip: Probing mechanical properties of the northeast Japan subduction zone, *Earth Planet. Sci. Lett.*, 406, 7-13, doi:10.1016/j.epsl.2014.08.035.
179. Hu, Y., R. Bürgmann, J. T. Freymueller, P. Banerjee, and K. Wang (2014), Contributions of poroelastic rebound and a weak volcanic arc to the postseismic deformation of the 2011 Tohoku earthquake, *Earth Planet. Space*, 66(106), doi:10.1186/1880-5981-66-106.
180. Taira, T., R. Bürgmann, R. M. Nadeau, and D. D. Dreger (2014), Variability of Fault Slip Behavior along the San Andreas Fault in the San Juan Bautista Region, *J. Geophys. Res.*, 119, doi:10.1002/2014JB011427.
- 2015:
181. Meng, L., H. Huang, R. Bürgmann, J.-P. Ampuero, and A. Strader (2015), Dual megathrust slip behaviors of the 2014 Iquique Earthquake sequence, *Earth Planet. Sci. Lett.*, 411, 177–187, doi:10.1016/j.epsl.2014.11.041.
182. Johnson, C. W., R. Bürgmann, and F. F. Pollitz (2015), Rare dynamic triggering of remote $M \geq 5.5$ earthquakes from global catalog analysis, *J. Geophys. Res.*, 120, doi:10.1002/2014JB011788.
183. Chaussard, E., R. Bürgmann, H. Fattahi, R. M. Nadeau, T. Taira, C. W. Johnson, and I. Johanson (2015), Potential for larger earthquakes in the East San Francisco Bay Area due to the direct connection between the Hayward and Calaveras Faults, *Geophys. Res. Lett.*, 42(8), 2734–2741, doi:10.1002/2015GL063575.
184. *Bürgmann, R. (2015), Diary of a wimpy fault, *Nature Geosci*, 8(5), 331-332, doi:10.1038/ngeo2426.
185. Liu, S., Z. K. Shen, and R. Bürgmann (2015), Recovery of Secular Deformation Field of Mojave Shear Zone in Southern California from Historical Terrestrial and GPS Measurements, *J. Geophys. Res.*, 120, doi:10.1002/2015JB011941.
186. Bendick, R., S. F. Khan, R. Bürgmann, F. Jouanne, P. Banerjee, M. A. Khan, and R. Bilham (2015), Postseismic relaxation in Kashmir shows lateral variations in crustal architecture and materials, *Geophys. Res. Lett.*, 42, doi:10.1002/2015GL064670.
187. Turner, R. C., M. Shirzaei, R. M. Nadeau, and R. Bürgmann (2015), Slow and Go: Pulsing Slip Rates on the Creeping Section of the San Andreas Fault, *J. Geophys. Res.*, 120, doi:10.1002/2015JB011998.
188. *Bürgmann, R. (2015), Weak subduction makes great quakes (Perspective), *Science*, 349(6253), 1162-1163, doi:10.1126/science.aac9625.
189. Wiseman, K., R. Bürgmann, A. M. Freed, and P. Banerjee (2015), Viscoelastic Relaxation in a Heterogeneous Earth Following the 2004 Sumatra-Andaman Earthquake, *Earth Planet. Sci. Lett.*, 431, 308-317, doi:10.1016/j.epsl.2015.09.024.
190. Delbridge, B., R. Burgmann, E. Fielding, and S. Hensley (2015), Kinematics of the Slumgullion Landslide from UAVSAR derived interferograms, conference proceedings paper presented at Geoscience and Remote Sensing Symposium (IGARSS), 2015 IEEE International, 26-31 July 2015, p. 3842-3845, doi: 10.1109/IGARSS.2015.7326662.
191. Chaussard, E., R. Bürgmann, H. Fattahi, C. W. Johnson, R. Nadeau, T. Taira, and I. Johanson (2015), Interseismic coupling and refined earthquake potential on the Hayward-Calaveras fault zone *J. Geophys. Res.*, 120, doi:10.1002/2015JB012230.
192. Dutilleul, P., C. W. Johnson, R. Bürgmann, Y. Wan, and Z.-K. Shen (2015), Multifrequential periodogram analysis of earthquake occurrence: An alternative approach to the Schuster spectrum, with two examples in central California, *J. Geophys. Res.*, 120, doi:10.1002/2015JB012467.

2016:

193. Huang, M.-H., R. Bürgmann, and F. Pollitz (2016), Lithospheric rheology constrained from twenty-five years of postseismic deformation following the 1989 Mw 6.9 Loma Prieta earthquake, *Earth Planet. Sci. Lett.*, 435, 147-158, doi:10.1016/j.epsl.2015.12.018.
194. Johnson, C. W., and R. Bürgmann (2016), Delayed dynamic triggering: Local seismicity leading up to three remote $M \geq 6$ aftershocks of the 11 April 2012 M8.6 Indian Ocean earthquake, *J. Geophys. Res.*, 121, doi:10.1002/2015JB012243.
195. Hu, Y., R. Bürgmann, N. Uchida, P. Banerjee, and J. T. Freymueller (2016), Stress-driven Relaxation of Heterogeneous Upper Mantle and Time-dependent Afterslip Following the 2011 Tohoku Earthquake, *J. Geophys. Res.*, 121, doi:10.1002/2015JB012508.
196. Beeler, N. M., G. Hirth, A. M. Thomas, and R. Bürgmann (2016), Effective stress, friction and deep crustal faulting, *J. Geophys. Res.*, 121, doi:10.1002/2015JB012115.
197. Uchida, N., T. Iinuma, R. M. Nadeau, R. Bürgmann, and R. Hino (2016), Periodic slow slip triggers megathrust zone earthquakes in northeastern Japan, *Science*, 351(6272), 488-492, doi:10.1126/science.aad3108.
198. Xu, W., R. Bürgmann, and Z. Li (2016), An Improved Geodetic Source Model for the 1999 Mw 6.3 Chamoli Earthquake, India, *Geophys. J. Int.*, 205, 236-242, doi:10.1093/gji/ggw016.
199. Bürgmann, R., N. Uchida, Y. Hu, and T. Matsuzawa (2016), Tohoku rupture reloaded?, *Nature Geosci.*, 9, 183-184, doi:10.1038/ngeo2649.
200. Chaussard, E., A. C. Johnson, H. Fattahi, and R. Bürgmann (2016), Potential and limits of InSAR to characterize interseismic deformation independently of GPS data: application to the southern San Andreas Fault system, *Geochem. Geophys. Geosyst.*, 17, 1214-1229, doi:10.1002/2015GC006246.
201. Huang, M.-H., R. Bürgmann, and J.-C. Hu (2016), Fifteen Years of Surface Deformation in Western Taiwan: Insight from SAR Interferometry, *Tectonophysics*, doi:10.1016/j.tecto.2016.02.021.
202. Delbridge, B., R. Bürgmann, E. Fielding, S. Hensley, and W. H. Schulz (2016), Three-dimensional surface deformation derived from airborne interferometric UAVSAR: Application to the Slumgullion Landslide, *J. Geophys. Res. Solid Earth*, 121, doi:10.1002/2015JB012559.
203. Houlié, N., G. Funning, and R. Bürgmann (2016), Use of a GPS-derived troposphere model to improve InSAR deformation estimates in the San Gabriel Valley, California, *IEEE Transactions on Geoscience and Remote Sensing*, 9(99), 5365-5374, doi:10.1109/TGRS.2016.2561971.
204. Johnson, C. W., E. J. Totten, and R. Bürgmann (2016), Depth migration of seasonally induced seismicity at the Geysers geothermal field, *Geophys. Res. Lett.*, 43, doi:10.1002/2016GL069546.
205. Floyd, M. A., et al. (2016), Spatial variations in fault friction controlled by lithology evidenced from the 2014 South Napa earthquake, *Geophys. Res. Lett.*, 43, doi:10.1002/2016GL069428.
206. Haddon, E. K., C. B. Amos, O. Zielke, A. S. Jayko, and R. Bürgmann (2016), Surface slip during large Owens Valley earthquakes, *Geochem. Geophys. Geosyst.*, 17, doi:10.1002/2015GC006033.
207. Kundu, B., A. Ghosh, M. Mendoza, R. Bürgmann, V. K. Gahalaut, and D. Saikia (2016), Tectonic tremor on Vancouver Island, Cascadia modulated by the body and surface waves of the Mw 8.6 and 8.2, 2012 East Indian Ocean earthquakes, *Geophys. Res. Lett.*, 43, doi:10.1029/2016GL069755.
208. Materna, K., and R. Bürgmann (2016), Contrasts in compliant fault zone properties inferred from geodetic measurements in the San Francisco Bay area, *J. Geophys. Res. Solid Earth*, 121, doi:10.1002/2016JB013243.
209. Hu, Y., R. Bürgmann, P. Banerjee, L. Feng, E. M. Hill, T. Ito, T. Tabei, and K. Wang (2016), Oceanic Asthenosphere Rheology From Postseismic Deformation of the 2012 Indian Ocean Earthquake, *Nature*, 538, 368-372, doi:10.1038/nature19787.

210. Milillo, P., R. Bürgmann, P. Lundgren, J. Salzer, D. Perissin, E. Fielding, F. Biondi, and G. Milillo (2016), Space geodetic monitoring of engineered structures: The ongoing destabilization of the Mosul dam, Iraq, *Scientific Reports*, 6(37408), doi:10.1038/srep37408.
211. Huang, M.-H., E. J. Fielding, H. Dickinson, J. Sun, A. Gonzalez-Ortega, A. M. Freed, and R. Bürgmann (2016), Fault Geometry and Slip Distribution of the 2010 Mw 7.2 El mayor-Cucapah Earthquake from Geodetic Data, *J. Geophys. Res. Solid Earth*, 121, doi:10.1002/2016JB012858.

2017

212. Huang, H., W. Xu, L. Meng, R. Bürgmann, and C. Baez (2017), Early aftershocks and afterslip surrounding the 2015 Mw 8.4 Illapel rupture, *Earth Planet. Sci. Lett.*, 457, 282-291, doi:10.1016/j.epsl.2016.09.055.
213. Wan, Y., Z.-K. Shen, R. Bürgmann, J. Sun, and M. Wang (2016), Fault geometry and slip distribution of the 2008 Mw 7.9 Wenchuan, China earthquake, inferred from GPS and InSAR measurements, *Geophys. J. Int.*, 208(2), 748-766, doi:10.1093/gji/ggw421.
214. Jiang, H., G. Feng, T. Wang, and R. Bürgmann (2017), Toward full exploitation of coherent and incoherent information in Sentinel-1 TOPS data for retrieving surface displacement: Application to the 2016 Kumamoto (Japan) earthquake, *Geophys. Res. Lett.*, 44, doi:10.1002/2016GL072253.
215. Bilham, R., D. Mencin, R. Bendick, and R. Bürgmann (2017), Implications for elastic energy storage in the Himalaya from the Gorkha 2015 earthquake and other incomplete ruptures of the Main Himalayan Thrust, *Quaternary International*, 462, 3-21, doi:10.1016/j.quaint.2016.09.055.
216. Shirzaei, M., R. Bürgmann, and E. Fielding (2017), Applicability of Sentinel-1 TOPS multitemporal interferometry for monitoring slow ground motions in the San Francisco Bay Area, *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL072663.
217. Chen, K. H., and R. Bürgmann (2017), Creeping faults: Good news, bad news?, *Reviews of Geophysics*, 55, doi:10.1002/2017RG000565.
218. Delbridge, B., S. Kita, N. Uchida, C. W. Johnson, T. Matsuzawa, and R. Bürgmann (2017), Temporal variation of intermediate-depth earthquakes around the time of the M 9.0 Tohoku-oki earthquake, *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL072876.
219. Gahalaut, V. K., R. K. Yadav, K. M. Sreejith, K. Gahalaut, R. Bürgmann, R. Agrawal, S. P. Sati, and A. Bansal (2017), InSAR and GPS measurements of crustal deformation due to seasonal loading of Tehri reservoir in Garhwal Himalaya, India, *Geophys. J. Int.*, 209(1), 425-433, doi:10.1093/gji/ggx015.
220. Johnson, C. W., Y. Fu, and R. Bürgmann (2017), Seasonal water storage, stress modulation and California seismicity, *Science*, 356(6343), 1161-1164, doi:10.1126/science.aak9547.
221. Zhao, B., R. Bürgmann, D. Wang, K. Tan, R. Du, and R. Zhang (2017), Dominant controls of down-dip afterslip and viscous relaxation on the postseismic displacements following the Mw7.9 Gorkha, Nepal earthquake, *J. Geophys. Res.*, 122(10), 8376-8401, doi:10.1002/2017JB014366.
222. Chaussard, E., P. Milillo, R. Bürgmann, D. Perissin, F. E.J., and B. Baker (2017), Remote sensing of ground deformation for monitoring groundwater management practices: application to the Santa Clara Valley during the 2012-2015 California drought, *J. Geophys. Res. Solid Earth*, 122(10), 8566-8582, doi:10.1002/2017JB014676.
223. Dickinson-Lovell, H., M.-H. Huang, A. M. Freed, E. Fielding, R. Bürgmann, and C. Andronicos (2017), Inferred rheological structure and mantle conditions from postseismic deformation following the 2010 Mw 7.2 El Mayor-Cucapah Earthquake, *Geophys. J. Int.*, 546-546, doi:10.1093/gji/ggx546.
224. Johnson, C. W., Y. Fu, and R. Bürgmann (2017), Stress models of the annual hydrospheric, atmospheric, thermal, and tidal loading cycles on California faults: Perturbation of background stress and changes in seismicity, *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2017JB014778.

2018

225. Ramírez-Herrera, M. T., K. Gaidzik, S. Forman, V. Kostoglodov, R. Bürgmann, and C. W. Johnson (2018), Relating the long-term and short-term vertical deformation across a transect of the forearc in the central Mexican subduction zone, *Geosphere*, 14(2), doi:10.1130/GES01446.1.
226. Thomas, A. M., N. M. Beeler, Q. Bletery, R. Bürgmann, and D. R. Shelly (2018), Using low frequency earthquake families on the San Andreas fault as deep creepmeters, *J. Geophys. Res. Solid Earth*, 123, doi:10.1002/2017JB014404.
227. Materna, K., T. Taira, and R. Bürgmann (2018), Aseismic Transform Fault Slip at the Mendocino Triple Junction from Characteristically Repeating Earthquakes, *Geophys. Res. Lett.*, 45, doi:10.1002/2017GL075899.
228. Beeler, N. M., A. M. Thomas, R. Bürgmann, and D. R. Shelly (2018), Constraints on friction, dilatancy, diffusivity, and effective stress from low-frequency earthquake rates on the deep San Andreas Fault, *J. Geophys. Res. Solid Earth*, 123, doi:10.1002/2017JB015052.
229. Cohen-Waeber, J., R. Bürgmann, E. Chaussard, C. Giannico, and A. Ferretti (2018), Spatiotemporal patterns of precipitation-modulated landslide deformation from independent component analysis of InSAR time series, *Geophys. Res. Lett.*, 45, 6, doi:10.1002/2017GL075950.
230. Xue, L., R. Bürgmann, D. R. Shelly, C. W. Johnson, and T. a. Taira (2018), Kinematics of the 2015 San Ramon, California earthquake swarm: Implications for fault zone structure and driving mechanisms, *Earth Planet. Sci. Lett.*, 489, 135-144, doi:10.1016/j.epsl.2018.02.018.
231. Shirzaei, M., and R. Bürgmann (2018), Global climate change and local land subsidence exacerbate inundation risk to the San Francisco Bay Area, *Sci. Adv.*, 4(3), doi:10.1126/sciadv.aap9234.
232. Xu, W., G. Feng, L. Meng, A. Zhang, J. P. Ampuero, R. Bürgmann, and L. Fang (2018), Transpressional Rupture Cascade of the 2016 Mw 7.8 Kaikoura Earthquake, New Zealand, *J. Geophys. Res.*, 123 (3), doi:10.1002/2017JB015168.
233. Liang, C., Z. Liu, E. J. Fielding, and R. Bürgmann (2018), InSAR Time Series Analysis of L-band Wide-Swath SAR Data Acquired by ALOS-2, *IEEE Trans. Geosci. Remote Sens.*, 56(8), 4492-4506, doi:10.1109/TGRS.2018.2821150.
234. Wang, T., Q. Shi, M. Nikkhoo, S. Wei, S. Barbot, D. Dreger, R. Bürgmann, M. Motagh, and Q.-F. Chen (2018), The rise, collapse, and compaction of Mt. Mantap from the 3 September 2017 North Korean nuclear test, *Science*, doi: 10.1126/science.aar7230.
235. Bürgmann, R. (2018), The Geophysics, Geology and Mechanics of Slow Fault Slip, *Earth Planet. Sci. Lett.*, 495, 112–134, doi:10.1016/j.epsl.2018.04.062.
236. Lindsey, E. O., R. Almeida, R. Mallick, J. Hubbard, K. Bradley, L. L. H. Tsang, Y. Liu, R. Bürgmann, and E. M. Hill (2017), Structural control on down-dip locking extent of the Himalayan megathrust, *J. Geophys. Res. Solid Earth*, 123, 5265–5278, doi:10.1029/2018JB015868.
237. Milliner, C., K. Materna, R. Bürgmann, Y. Fu, A. W. Moore, D. Bekaert, S. Adhikari, and D. F. Argus (2018), Tracking the weight of Hurricane Harvey's stormwater using GPS data, *Science Advances*, 4(9), doi: 10.1126/sciadv.aau2477.
238. Xu, W., Wu, S., Materna, K., Nadeau, R., Floyd, M., Funning, G., Chaussard, E., Johnson, C., Murray, J., Ding, X., and R. Bürgmann (2018), Interseismic ground deformation and fault slip rates in the greater San Francisco Bay Area from two decades of space geodetic data, *J. Geophys. Res. Solid Earth*, 123, doi:10.1029/2018JB016004.
239. Panda, D., B. Kundu, V. K. Gahalaut, R. Bürgmann, B. Jha, R. Asaithambi, R. K. Yadav, N. K. Vissa, and A. K. Bansal (2018), Seasonal modulation of deep slow-slip and earthquakes on the Main Himalayan Thrust, *Nature Communications*, 9(1), 4140, doi:10.1038/s41467-018-06371-2.
240. Materna, K., W. Shengji, X. Wang, L. Heng, T. Wang, R. Salman, and R. Bürgmann (2018), Source characteristics of the 2017 Mw 6.4 Mojabana, Botswana earthquake, a rare lower-crustal event within an ancient zone of weakness, *Earth Planet. Sci. Lett.*, 506, 348-359, doi:10.1016/j.epsl.2018.11.007.

241. Zhao, D., C. Qu, X. Shan, R. Bürgmann, W. Gong, and G. Zhang (2018), Spatiotemporal evolution of postseismic deformation following the 2001 Mw7.8 Kokoxili, China, earthquake from 7 years of InSAR observations, *Remote Sensing*, 10(12), doi:10.3390/rs10121988.
- 2019:
242. Handwerger, 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.
243. Rousset, B., R. Bürgmann, and M. Campillo (2018), Slow slip events in the roots of the San Andreas fault, *Sci. Adv.*, 5(2), doi:10.1126/sciadv.aav3274.
244. Uchida, N., and R. Bürgmann (2019), Repeating Earthquakes, *Annual Review of Earth and Planetary Sciences*, 47, 305–332, doi:10.1146/annurev-earth-053018-060119.
245. Wang, S., W. Xu, C. Xu, Z. Yin, R. Bürgmann, L. Liu, and G. Jiang (2019), Changes in groundwater level possibly encourage shallow earthquakes in central Australia: The 2016 Petermann Ranges earthquake, *Geophys Res Lett*, 46, 3189–3198, doi:10.1029/2018GL080510.
246. Shi, G., H. Lin, R. Bürgmann, P. Ma, J. Wang, and Y. Liu (2019), Early soil consolidation from magnetic extensometers and full resolution SAR interferometry over highly decorrelated reclaimed lands, *Remote Sensing of Environment*, 231, doi:10.1016/j.rse.2019.111231.
247. Malagnini, L., D. S. Dreger, R. Bürgmann, I. Munafò, and G. Sebastiani (2019), Modulation of seismic attenuation at Parkfield, before and after the 2004 M6 earthquake, *J. Geophys. Res.*, 124, doi:10.1029/2019JB017372.
248. Wang, L., and R. Bürgmann (2019), Statistical significance of precursory gravity changes before the 2011 Mw 9.0 Tohoku-Oki earthquake, *Geophys. Res. Lett.*, 46, doi:10.1029/2019GL082682.
249. Hu, X., R. Bürgmann, Z. Lu, A. L. Handwerger, T. Wang, and R. Miao (2019), Mobility, thickness, and hydraulic diffusivity of the slow-moving Monroe landslide in California revealed by L-band satellite radar interferometry, *J. Geophys. Res. Solid Earth*, 124, doi:10.1002/2019JB017560.
250. Ariyoshi, K., J.-P. Ampuero, R. Bürgmann, T. Matsuzawa, A. Hasegawa, R. Hino, and T. Hori (2019), Quantitative relationship between aseismic slip propagation speed and frictional properties, *Tectonophysics*, 767, doi: 10.1016/j.tecto.2019.06.021.
251. Gupta, S., P. N. Singharoy, R. K. Yadav, J. K. Catherine, R. Burgmann, and V. K. Gahalaut (2019), Anomalous transients in GPS measurements due to induced changes in local site conditions, *Journal of Earth System Science*, 128(7), 186, doi:10.1007/s12040-019-1213-7.
252. Wang, K., H. S. MacArthur, I. Johanson, E. K. Montgomery-Brown, M. P. Poland, E. C. Cannon, M. d’Alessio, and R. Bürgmann (2019), Interseismic quiescence and triggered slip of active normal faults of Kīlauea Volcano’s south flank during 2001-2018, *J. Geophys. Res. Solid Earth*, 124, doi:10.1029/2019JB017419.
253. Bilham, R., N. U. Kakar, D. M. Kakar, K. Wang, R. Bürgmann, and W. D. Barnhart (2019), The 1892 Chaman, Pakistan, Earthquake, *Seismological Research Letters*, doi:10.1785/0220190148.
254. Yan, J., D. Dong, R. Bürgmann, K. Materna, W. Tan, Y. Peng, and J. Chen (2019), Separation of sources of seasonal uplift in China using independent component analysis of GNSS time series, *J. Geophys. Res. Solid Earth*, 124, doi:10.1029/2019JB018139.
255. Materna, K., N. Bartlow, A. Wech, C. Williams, and R. Bürgmann (2019), Dynamically Triggered Changes of Plate Interface Coupling in Southern Cascadia, *Geophys. Res. Lett.*, 46, doi:10.1029/2019GL084395.
256. Rousset, B., Y. Fu, N. Bartlow, and R. Bürgmann (2019), Weeks-long and years-long slow slip and tectonic tremor episodes on the south-central Alaska megathrust, *J. Geophys. Res. Solid Earth*, 124, 13,392–313,403, doi:10.1029/2019JB018724.

2020:

257. Li, Y., R. Bürgmann, and B. Zhao (2020), Evidence of Fault Immaturity from Shallow Slip Deficit and Lack of Postseismic Deformation of the 2017 Mw 6.5 Jiuzhaigou Earthquake, *Bull. Seismol. Soc. Am.*, *110*, 154–165, doi:10.1785/0120190162.
258. Dai, K., Li, Z., Xu, Q., Burgmann, R., Milledge, D., Tomas, R., Fan, X., Zhao, C., Liu, X., Peng, J., Zhang, Q., Wang, Z., Qu, T., He, C., Li, D., Liu, J., (2020), Entering the Era of Earth Observation-Based Landslide Warning Systems: A novel and exciting framework, *IEEE Geoscience and Remote Sensing Magazine*, doi:10.1109/MGRS.2019.2954395.
259. Johnson, C. W., Y. Fu, and R. Bürgmann (2020), Hydrospheric modulation of stress and seismicity on shallow faults in southern Alaska, *Earth Planet. Sci. Lett.*, *530*, 115904, doi:10.1016/j.epsl.2019.115904.
260. Wang, K., and R. Bürgmann (2020), Co- and Early Postseismic Deformation Due to the 2019 Ridgecrest Earthquake Sequence Constrained by Sentinel-1 and COSMO-SkyMed SAR Data, *Seismological Research Letters*, *91*(4), 1998–2009, doi:10.1785/0220190299.
261. Panda, D., B. Kundu, V. K. Gahalaut, R. Bürgmann, B. Jha, R. Asaithambi, R. K. Yadav, N. K. Vissa, and A. K. Bansal (2020), Reply to “A warning against over-interpretation of seasonal signals measured by the Global Navigation Satellite System”, *Nature Communications*, *11*(1), 1376, doi:10.1038/s41467-020-15103-4.
262. Xue, L., C. W. Johnson, Y. Fu, and R. Bürgmann (2020), Seasonal seismicity in the Western Branch of the East African Rift System, *Geophys. Res. Lett.*, *47*, doi:10.1029/2019GL085882.
263. Delbridge, B. G., J. D. Carmichael, R. M. Nadeau, D. R. Shelly, and R. Bürgmann (2020), Geodetic Measurements of Slow Slip Events Southeast of Parkfield, CA, *J. Geophys. Res.*, *125*, doi:10.1029/2019JB019059.
264. Hu, X., and R. Bürgmann (2020), Rheology of a Debris Slide From the Joint Analysis of UAVSAR and LiDAR Data, *Geophys. Res. Lett.*, *47*(8), e2020GL087452, doi:10.1029/2020GL087452.
265. Kundu, B., R. K. Yadav, R. Bürgmann, K. Wang, D. Panda, and V. K. Gahalaut (2020), Triggering relationships between magmatic and faulting processes in the May 2018 eruptive sequence at Kīlauea volcano, Hawaii, *Geophys. J. Int.*, *222*(1), 461–473, doi:10.1093/gji/ggaa178.
266. Brooks, B. A., Murray, J., Svarc, J., Phillips, E., Turner, R., Murray, M., Ericksen, T., Wang, K., Minson, S., Burgmann, R., Pollitz, F., Hudnut, K., Nevitt, J., Roeloffs, E., Hernandez, J., Olson, B. (2020), Rapid Geodetic Observations of Spatiotemporally Varying Postseismic Deformation Following the Ridgecrest Earthquake Sequence: The U.S. Geological Survey Response, *Seismological Research Letters*, *91*, 2108–2123, doi:10.1785/0220200007.
267. Hu, X., R. Bürgmann, W. H. Schulz, and E. J. Fielding (2020), Four-dimensional surface motions of the Slumgullion landslide and quantification of hydrometeorological forcing, *Nature Communications*, *11*(1), 2792, doi:10.1038/s41467-020-16617-7.
268. Wang, K., D. Dreger, E. Tinti, R. Bürgmann, and T. Taira (2020), Rupture process of the 2019 Ridgecrest, California M6.4 Foreshock and M7.1 Earthquake Constrained by Seismic and Geodetic Data, *Bull. Seismol. Soc. Am.*, 1–24, doi:10.1785/0120200108.
269. Pritchard, M. E., et al. (2020), New Opportunities to Study Earthquake Precursors, *Seismological Research Letters*, doi:10.1785/0220200089.
270. Hu, X., and R. Bürgmann (2020), Aquifer deformation and active faulting in Salt Lake Valley, Utah, USA, *Earth Planet. Sci. Lett.*, *547*, doi:10.1016/j.epsl.2020.116471.
271. Hu, X., R. Bürgmann, E. J. Fielding, and H. Lee (2020), Internal kinematics of the Slumgullion landslide (USA) from high-resolution UAVSAR InSAR data, *Remote Sensing of Environment*, *251*, 112057, doi:https://doi.org/10.1016/j.rse.2020.112057.
272. Milliner, C., R. Bürgmann, A. Inbal, T. Wang, and C. Liang (2020), Resolving the Kinematics and Moment Release of Early Afterslip within the First Hours following the 2016 Mw 7.1 Kumamoto

- Earthquake: Implications for the Shallow Slip Deficit and Frictional Behavior of Aseismic Creep, *J. Geophys. Res.*, 125, e2019JB018928, doi:10.1029/2019JB018928.
273. Hsu, Y.-J., Y. Fu, R. Bürgmann, S.-Y. Hsu, C.-C. Lin, C.-H. Tang, and Y.-M. Wu (2020), Assessing seasonal and interannual water storage variations in Taiwan using geodetic and hydrological data, *Earth Planet. Sci. Lett.*, 550, 116532, doi:https://doi.org/10.1016/j.epsl.2020.116532.
274. Huang, H., L. Meng, R. Bürgmann, W. Wang, and K. Wang (2020), Spatio-temporal foreshock evolution of the 2019 M 6.4 and M 7.1 Ridgecrest, California earthquakes, *Earth Planet. Sci. Lett.*, 551, 116582, doi:https://doi.org/10.1016/j.epsl.2020.116582.
275. Liu, S., Z.-K. Shen, R. Bürgmann, and S. Jónsson (2020), Thin crème brûlée rheological structure for the Eastern California Shear Zone, *Geology*, doi:10.1130/G47729.1.
276. Wang, K., and R. Bürgmann (2020), Probing fault frictional properties during afterslip up- and downdip of the 2017 Mw 7.3 Sarpol-e Zahab earthquake with space geodesy, *J. Geophys. Res.*, 125, e2020JB020319, doi:10.1029/2020JB020319.
277. Dutilleul, P., C. W. Johnson, and R. Bürgmann (2020), Marked spatio-temporal point patterns, periodicity analysis and earthquakes: an analytical extension including hypocenter depth, *Environmental and Ecological Statistics*, doi:10.1007/s10651-020-00470-4.
278. Zhao, D., C. Qu, X. Shan, R. Bürgmann, W. Gong, H. Tung, G. Zhang, X. Song, and X. Qiao (2020), Multifault complex rupture and afterslip associated with the 2018 Mw 6.4 Hualien earthquake in northeastern Taiwan, *Geophys. J. Int.*, 224(1), 416-434, doi:10.1093/gji/ggaa474.
- 2021:
279. Materna, K., Feng, L., Lindsey, E.O., Hill, E.M., Ahsan, A., Alam, A.K.M.K., Oo, K.M., Than, O., Aung, T., Khaing, S.N., Bürgmann, R., (2021), GNSS characterization of hydrological loading in South and Southeast Asia, *Geophys. J. Int.*, 224(3), 1742-1752, doi:10.1093/gji/ggaa500.
280. Dutilleul, P., C. W. Johnson, and R. Bürgmann (2021), Periodicity Analysis of Earthquake Occurrence and Hypocenter Depth near Parkfield, California, 1994-2002 versus 2006-2014, *Geophys. Res. Lett.*, 48, e2020GL089673, doi:10.1029/2020GL089673.
281. Behr, W. M., and R. Bürgmann (2021), What's down there? The structures, materials and environment of deep-seated slow slip and tremor, *Phil. Trans. R. Soc. , A* 379(20200218), doi:https://doi.org/10.1098/rsta.2020.0218.
282. Milliner, C., A. Donnellan, S. Aati, J.-P. Avouac, R. Zinke, J. F. Dolan, K. Wang, and R. Bürgmann (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, *J. Geophys. Res.*, 126, e2020JB020551, doi:10.1029/2020JB020551.
283. Zhao, D., C. Qu, R. Bürgmann, W. Gong, and X. Shan (2021), Relaxation of Tibetan Lower Crust and Afterslip Driven by the 2001 Mw7.8 Kokoxili, China, Earthquake Constrained by a Decade of Geodetic Measurements, *J. Geophys. Res.*, 126, e2020JB021314, doi:https://doi.org/10.1029/2020JB021314.
284. Blisniuk, K., K. Scharer, W. D. Sharp, R. Burgmann, C. Amos, and M. Rymer (2021), A revised position for the primary strand of the Pleistocene-Holocene San Andreas fault in southern California, *Science Advances*, 7(13), eaaz5691, doi:10.1126/sciadv.aaz5691.
285. Hsu, Y.-J., H. Kao, R. Bürgmann, Y.-T. Lee, H.-H. Huang, Y.-F. Hsu, Y.-M. Wu, and J. Zhuang (2021), Synchronized and asynchronous modulation of seismicity by hydrological loading: A case study in Taiwan, *Science Advances*, 7(16), eabf7282, doi:10.1126/sciadv.abf7282.
286. Lindsey, E. O., R. Mallick, J. A. Hubbard, K. E. Bradley, R. V. Almeida, J. D. P. Moore, R. Bürgmann, and E. M. Hill (2021), Slip rate deficit and earthquake potential on shallow megathrusts, *Nature Geoscience*, doi:10.1038/s41561-021-00736-x.
287. Uchida, N., and R. Bürgmann (2021), A Decade of Lessons Learned from the 2011 Tohoku-oki Earthquake, *Reviews of Geophysics*, 59, e2020RG000713, doi:10.1029/2020RG000713.

288. *Uchida, N., and R. Bürgmann (2021), Learning from a disastrous megathrust earthquake, *Eos*, 102, doi:10.1029/2021EO159741.
289. Li, Y., and R. Bürgmann (2021), Partial coupling and earthquake potential along the Xianshuihe Fault, China, *J. Geophys. Res.*, 126, e2020JB021406, <https://doi.org/10.1029/2020JB021406>.
290. Thomas, A. M., A. Inbal, J. Searcy, D. R. Shelly, and R. Bürgmann (2021), Identification of low-frequency earthquakes on the San Andreas fault with deep learning, *Geophys. Res. Lett.*, e2021GL093157, doi:<https://doi.org/10.1029/2021GL093157>.
291. Liu, J., J. Hu, R. Bürgmann, Z. Li, Q. Sun, and Z. Ma (2021), A Strain-Model Based InSAR Time Series Method and its Application to The Geysers Geothermal Field, California, *J. Geophys. Res.*, 126, e2021JB021939, doi:10.1029/2021JB021939.
292. Xie, L., W. Xu, R. Bürgmann, X. Ding, V. K. Gahalaut, and S. Mondal (2021), Tehri Reservoir Operation Modulates Seasonal Elastic Crustal Deformation in the Himalaya, *J. Geophys. Res.*, 126(8), e2020JB021122, doi:10.1029/2020JB021122.
293. Wang, M., Shen, Z.-K., Wang, Y., Bürgmann, R., Wang, F., Zhang, P.-Z., Liao, H., Zhang, R., Wang, Q., Jiang, Z.-S., Chen, W.-T., Hao, M., Li, Y., Gu, T., Tao, W., Wang, K., Xue, L., (2021), Postseismic deformation of the 2008 Wenchuan earthquake illuminates lithospheric rheological structure and dynamics of eastern Tibet, *J. Geophys. Res.*, 126, e2021JB022399, <https://doi.org/10.1029/2021JB022399>.
294. Antoine, S. L., Y. Klinger, A. Delorme, K. Wang, R. Bürgmann, and R. D. Gold (2021), Diffuse Deformation and Surface Faulting Distribution from Submetric Image Correlation along the 2019 Ridgecrest, California, Ruptures, *Bulletin of the Seismological Society of America*, 111, 2275–2302, doi:10.1785/0120210036.
295. Inbal, A., A. M. Thomas, T. Newton, and R. Bürgmann (2021), Complex Migration of Tremor near Cholame, CA, Resolved by Seismic Array Analysis, *J. Geophys. Res.*, 126, e2021JB022174, doi:<https://doi.org/10.1029/2021JB022174>.
296. Mallick, R., R. Bürgmann, K. Johnson, and J. Hubbard (2021), A Unified Framework for Earthquake Sequences and the Growth of Geological Structure in Fold-Thrust Belts, *J. Geophys. Res.*, 126(9), e2021JB022045, <https://doi.org/10.1029/2021JB022045>.
297. Vasco, D. W., S. V. Samsonov, K. Wang, R. Burgmann, P. Jeanne, W. Foxall, and Y. Zhang (2021), Monitoring natural gas storage using Synthetic Aperture Radar: are the residuals informative?, *Geophys. J. Int.*, 228(2), 1438–1456, doi:10.1093/gji/ggab409.
298. Mirzadeh, S. M. J., S. Jin, E. Parizi, E. Chaussard, R. Bürgmann, J. M. Delgado Blasco, M. Amani, H. Bao, and S. H. Mirzadeh (2021), Characterization of Irreversible Land Subsidence in the Yazd-Ardakan Plain, Iran From 2003 to 2020 InSAR Time Series, *J. Geophys. Res.*, 126(11), e2021JB022258, doi:<https://doi.org/10.1029/2021JB022258>.
299. Hu, X., R. Bürgmann, X. Xu, E. Fielding, and Z. Liu (2021), Machine-Learning Characterization of Tectonic, Hydrological and Anthropogenic Sources of Active Ground Deformation in California, *J. Geophys. Res.*, 126(11), e2021JB022373, <https://doi.org/10.1029/2021JB022373>.
300. Hu, X., L. Xue, R. Bürgmann, and Y. Fu (2021), Stress perturbations from hydrological and industrial loads and seismicity in the Salt Lake City region, *J. Geophys. Res.*, 126, e2021JB022362, <https://doi.org/10.1029/2021JB022362>.
301. Xue, L., Y. Fu, C. W. Johnson, J. J. Otero Torres, C. K. Shum, and R. Bürgmann (2021), Seasonal Seismicity in the Lake Biwa Region of Central Japan Moderately Modulated by Lake Water Storage Changes, *J. Geophys. Res.*, 126(12), e2021JB023301, doi:<https://doi.org/10.1029/2021JB023301>.

2022:

302. Maneerat, P., and R. Bürgmann (2022), Geomorphic expressions of active tectonics across the Indo-Burma Range, *Journal of Asian Earth Sciences*, 223, 105008, <https://doi.org/10.1016/j.jseaes.2021.105008>.
303. Tsuchiyama, A., T. a. Taira, J. Nakajima, and R. Bürgmann (2022), Emergence of Low-Frequency Aftershocks of the 2019 Ridgecrest Earthquake Sequence, *Bulletin of the Seismological Society of America*, doi:10.1785/0120210206.
304. Zhao, D., C. Qu, R. Bürgmann, W. Gong, X. Shan, X. Qiao, L. Zhao, H. Chen, and L. Liu (2022), Large-Scale Crustal Deformation, Slip-Rate Variation, and Strain Distribution Along the Kunlun Fault (Tibet) From Sentinel-1 InSAR Observations (2015–2020), *J. Geophys. Res.*, 127(1), e2021JB022892, doi:<https://doi.org/10.1029/2021JB022892>.
305. Xu, W., H. Gao, R. Bürgmann, G. Feng, Z. Li, and G. Jiang (2022), Anthropogenic activity at the Leyte geothermal field promoted the 2017 Mw 6.5 earthquake, *Tectonophysics*, 824, 229227, doi:<https://doi.org/10.1016/j.tecto.2022.229227>.
306. Maneerat, P., D. S. Dreger, and R. Bürgmann (2022), Stress Orientations and Driving Forces in the Indo-Burma Plate Boundary Zone, *Bulletin of the Seismological Society of America*, doi:10.1785/0120210303.
307. Baden Curtis, W., L. Shuster David, F. Aron, C. Fosdick Julie, R. Bürgmann, and E. Hilley George Bridging earthquakes and mountain building in the Santa Cruz Mountains, CA, *Science Advances*, 8(8), eabi6031, doi:10.1126/sciadv.abi6031.
308. Jiang, Y., P. J. González, and R. Bürgmann (2022), Subduction earthquakes controlled by incoming plate geometry: The 2020 M > 7.5 Shumagin, Alaska, earthquake doublet, *Earth Planet. Sci. Lett.*, 584, 117447, doi:<https://doi.org/10.1016/j.epsl.2022.117447>.
309. Zhao, B., R. Bürgmann, D. Wang, J. Zhang, J. Yu, and Q. Li (2022), Aseismic slip and recent ruptures of persistent asperities along the Alaska-Aleutian subduction zone, *Nature Communications*, 13(1), 3098, doi:10.1038/s41467-022-30883-7.
310. Xie, L., W. Xu, X. Ding, R. Bürgmann, S. Giri, and X. Liu (2022), A multi-platform, open-source, and quantitative remote sensing framework for dam-related hazard investigation: Insights into the 2020 Sardoba dam collapse, *International Journal of Applied Earth Observation and Geoinformation*, 111, 102849, doi:<https://doi.org/10.1016/j.jag.2022.102849>.
311. Zhou, C., H. Lan, R. Bürgmann, T. A. Warner, J. J. Clague, L. Li, Y. Wu, X. Zhao, Y. Zhang, and J. Yao (2022), Application of an improved multi-temporal InSAR method and forward geophysical model to document subsidence and rebound of the Chinese Loess Plateau following land reclamation in the Yan'an New District, *Remote Sensing of Environment*, 279, 113102, doi:<https://doi.org/10.1016/j.rse.2022.113102>.
312. Xu, W., X. Liu, R. Bürgmann, L. Xie, G. Feng, Z. Li, and L. Wu (2022), Space Geodetic Evidence of Basement-Involved Thick-Skinned Orogeny and Fault Frictional Heterogeneity of the Papuan Fold Belt, Papua New Guinea, *J. Geophys. Res.*, 127(8), e2022JB024227, doi:<https://doi.org/10.1029/2022JB024227>.
313. Zhao, D., C. Qu, X. Shan, R. Bürgmann, H. Chen, and K. Materna (2022), Transient fault creep on the Xidatan (Tibet) fault driven by viscoelastic relaxation following the 2001 Kokoxili earthquake, *Geology*, doi:10.1130/G50380.1.
314. Maneerat, P., R. Bürgmann, and P. M. Betka (2022), Thrust Sequence in the Western Fold-and-Thrust Belt of the Indo-Burma Range Determined from Fluvial Profile Analysis and Dynamic Landform Modeling, *Tectonophysics*, 845, 229638, doi:10.1016/j.tecto.2022.229638.
315. Kundu, B., B. Senapati, R. Bürgmann, and S. Ray (2022), Detecting the January 15, 2022 Hunga Tonga-Hunga-Ha'apai volcanic eruption (SW Pacific) high up in the sky through “ionospheric resonance”, *Geophys. J. Int.*, ggac492, doi:10.1093/gji/ggac492.

2023:

316. Li, Y., R. Bürgmann, and T. a. Taira (2023), Spatiotemporal Variations of Surface Deformation, Shallow Creep Rate, and Slip Partitioning Between the San Andreas and Southern Calaveras Fault, *J. Geophys. Res.*, 128(1), e2022JB025363, doi:<https://doi.org/10.1029/2022JB025363>.
317. Xu, Y., Z. Lu, R. Bürgmann, S. Hensley, E. Fielding, and J. Kim (2023), P-band SAR for ground deformation surveying: Advantages and challenges, *Remote Sensing of Environment*, 287, 113474, doi:<https://doi.org/10.1016/j.rse.2023.113474>.
318. Wang, K., D. S. Dreger, R. Burgmann, and T. a. Taira (2023), Finite-Source Model of the 8 July 2021 M 6.0 Antelope Valley, California, Earthquake, *Seismological Research Letters*, doi:10.1785/0220220262.

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* Non-refereed publication (book reviews, opinion articles, etc.).

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