

Curriculum Vitae of Zhigang Peng

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Education

Ph.D. in Geological Sciences, University of Southern California, Los Angeles, CA	2004
M.S. in Electrical Engineering, University of Southern California, Los Angeles, CA	2002
B.S. in Geophysics, University of Science and Technology of China, Hefei, China	1998
B.E. in Computer Application, University of Science and Technology of China, Hefei, China	1998

Employment

Professor	Georgia Institute of Technology	07/2016 –
Associate Professor	Georgia Institute of Technology	07/2011 – 07/2016
Assistant Professor	Georgia Institute of Technology	08/2006 – 07/2011
Postdoctoral Researcher	University of California, Los Angeles	06/2004 – 08/2006
Research Assistant	University of Southern California	09/1998 – 06/2004

Research Interests

High Resolution Imaging of Fault Zone Structures, Temporal Changes of Earth's Properties, Earthquake Source Properties, Spatio-Temporal Seismicity Patterns, Earthquake Triggering, Deep Tectonic Tremor and Slow Earthquakes, Seismological Studies of the Earth's Interior, High-Performance Computing and Machine Learning

Honors and Awards

Distinguished Service Award, Seismological Society of America	2020
Kavli Fellow	2013
Charles Richter Early Career Award, Seismological Society of America	2010
NSF CAREER Award	2010
Young Faculty Award, School of Earth and Atmospheric Sciences, Georgia Tech	2010
Outstanding Student Paper Award, American Geophysical Union	2002

Teaching Experience

Assistant/Associate Professor of Geophysics, 08/2006 – now: School of Earth and Atmospheric Sciences (EAS), Georgia Institute of Technology

- Introduction to Geophysics: Introduction to methods used to visualize and understand the history, shape, mechanical structure, and dynamics of the solid-earth system. The covered topics include seismology, gravity, magnetism, heat flow, and geodesy.
- Observational Seismology: Advanced graduate-level course designed to involve students into seismological research. The covered topics include digital signal processing, seismometers and seismic networks, basic and advanced seismic data processing tools, travel time and synthetic seismogram calculations.
- Earthquake Physics: Graduate-level lectures, discussion and presentations of the current status of geophysical and mechanical understanding of processes that control earthquakes.
- Seismology: Graduate-level course in understanding the Earth's interior and earthquakes via seismic waves.

- Exploration Seismology: Comprehensive review of reflection/refraction seismology and its application to oil and gas exploration industry. It includes key aspects of basic seismic wave propagation, data acquisition, processing and interpretation..

Instructor, Summer 2004: Dept. of Earth and Space Sciences, University of California, Los Angeles

- Earthquakes: Undergraduate course in causes and effects of earthquakes, seismic waves, and damages.

Teaching Assistant, Fall 2003–Spring 2004: Dept. of Earth Sciences, University of Southern California

- Seismic Exploration Geophysics, Geophysics and Geoengineering, Seminar in Earthquake Physics

Certificate for participation in “The Professoriate: Preparing for the Future”, Fall 2003–Spring 2004: Center for Excellence in Teaching, University of Southern California

Professional Affiliations

American Geophysical Union (AGU)	1999 – present
Seismological Society of America (SSA)	2000 – present
Society of Exploration Geophysicists (SEG)	2003 – present
American Association for Advancement of sciences (AAAS)	2017 – present

Field Experience

Short-period seismic deployment in Oklahoma	03/2016
Broadband seismic deployment around Nicoya Peninsula, Costa Rica	02/2011
Compliant fault zone experiment along the Calico fault zone in the Mojave desert	05/2006
Fault zone trapped wave experiment after the 2004 Parkfield earthquake	10/2004
Los Angeles Region Seismic Experiment II	10/1999
Fault zone trapped wave experiment after the 1999 Hector Mine earthquake	11/1999

Service Activities

Journal Editorship:

- Associate Editor of the Bulletin of Seismological Society of America 2010 – 2013
- Associate Editor of the Journal of Geophysical Research, Solid Earth 2011 – 2013
- Guest Editor of the Geophysical Research Letters for the Special Section: “The 11 March 2011 Tohoku-Oki Earthquake and Tsunami”, 2011
- Associate Editor of the Seismological Research Letters, April 2013 – July 2013
- Editor-In-Chief of the Seismological Research Letters, July 2013 – July 2019
- Guest Editor of the Journal of Geophysical Research, Solid Earth for the Special Collection: “100-year Anniversary of the Great 1920 Haiyuan Earthquake: What Have We Learnt on Large Continental Earthquakes and Faults”, 2021

Committees/Leadership:

- Georgia Tech EAS Graduate Admission Committee 2006 – 2011
- Georgia Tech EAS Award Committee 2011 – 2012, 2015 –
- Georgia Tech EAS Faculty Search Committee 2006, 2009, 2011, 2017, 2019
- Institutional Reprehensive, Incorporated Research Institutions for Seismology (IRIS) 2006 –
- IRIS Data Management Center Standing Committee 2011 – 2013
- Charles Richter Early Career Award Committee, Seismological Society of America 2013 – 2016
- IRIS Board of Directors 2017 – 2019
- President of Eastern Section of the Seismological Society of America 2019 –
- Vice Chair of the International Professionals for Advancement of Chinese Earth Sciences, 2019 –

- Seismological Society of America Board of Directors 2021 –

Graduate Students/Postdoctoral Researchers Supervised (# indicates publication number)

Peng Zhao (Ph.D. 2010, research geophysicist at CGG Veritas, Oslo)	^{11,20,22,24,30,37,52}	2005 – 2010
Chunquan Wu (Ph.D. 2011, now senior software developer at ECS)	^{16,21,25,33,34,38,50,54,61}	2005 – 2011
Kevin Chao (Ph.D. 2012, now data scientist at Biofourmis)	^{14,19,26,36,39,43,51,53,56,57,73}	2006 – 2012
Chenxiao Du (M.S. 2011, jointly with Prof. A. Newman, now at BB&T)		2009 – 2011
Brendan Sullivan (M.S. 2012, now research scientist at Chevron)		2009 – 2012
Wei-Fang Sun (M.S. 2014, now research assistant at Dong Hwa University, Taiwan) ⁷³		2012 – 2014
Jacob Walter (Postdoc, now Geophysicist at OGS)	^{65,72,76}	2012 – 2013
Hongfeng Yang (Research Scientist, now Associate Prof. at CUHK)	^{59, 69}	2013 – 2014
Xiaofeng Meng (Ph.D. 2015, now postdoc at USC/SCEC)	^{47,58,61,64,70,74,76,78,81}	2009 – 2015
Chastity Aiken (Ph.D. 2015, now research scientist at IFREMER)		2010 – 2015
	^{31,33,35,42,51,52,53,56,66,72,83}	
Zefeng Li (Ph.D. 2017, now research scientist at USTC)	^{63,69,71,77,79,80}	2012 – 2017
Adebayo Ayorinde (M.S. 2017) ⁹⁴		2015 – 2017
Dongdong Yao (Ph.D. 2018, now research scientist at CUG, Wuhan) ^{75,81,84}		2012 – 2018
Mingyu Ji (M.S. 2019)		2016 – 2019
Chenyu Li (Ph.D. 2020, now postdoc at EOS, NTU) ^{96,102,109}		2014 – 2021
Clara Daniels (Ph.D. candidate) ¹⁰⁹		2017 – present
Miguel Neves (Ph.D. candidate) ⁹⁴		2017 – present
Qiushi Zhai (Ph.D. candidate) ¹⁰⁷		2017 – present
Yu-Lin Lindsay Chuang (Ph.D. candidate)		2018 – present
Phuc Mach (Ph.D. candidate)		2021 – present

Honors and Awards by Students

Peng Zhao	Research Excellence Award, EAS, Georgia Tech	2010
Peng Zhao	Best Thesis Award, EAS, Georgia Tech	2011
Kevin Chao	Best Student Presentation Award, Seismological Society of America	2011
Chunquan Wu	Best Paper Award, EAS, Georgia Tech	2012
Chastity Aiken	National Science Foundation Graduate Fellowship	2012
Chastity Aiken	Achievement Rewards for Academic Scientists (ARCS) Award	2013
Chastity Aiken	AGU Outstanding Student Paper Award	2013
Xiaofeng Meng	AGU Outstanding Student Paper Award	2013
Xiaofeng Meng	Research Excellence Award, EAS, Georgia Tech	2014
Chastity Aiken	Best Paper Award, EAS, Georgia Tech	2015
Zefeng Li	Kurt Frankel Award, EAS, Georgia Tech	2016
Dongdong Yao	Best Poster Presentation Award, ES Seismological Society of America	2016

Undergraduate Students, Summer Interns, and Visiting Scholars Supervised (# indicates publication number)

Chris Keiser	GT Undergraduate Researcher	01/2007 – 05/2007
Summer Ohlendorf	SCEC Undergraduate Summer Intern	06/2007 – 08/2007
Tao Jiang ^{29,32}	Visiting Scholar	09/2008 – 09/2009
Amanda Fabian ⁴³	SCEC Undergraduate Summer Intern	06/2009 – 08/2009
Lujendra Ojha ⁴³	SCEC Undergraduate Summer Intern	06/2009 – 08/2009
Chi-Chia Tang ^{26,57,68}	Visiting Graduate Student	09/2009 – 03/2010
Chastity Aiken ³¹	Undergraduate Researcher (Georgia State)	01/2010 – 05/2010
Adrian Doran	SCEC Undergraduate Summer Intern	06/2010 – 08/2010
Meghan Fisher ⁴¹	SCEC Undergraduate Summer Intern	06/2010 – 08/2010

Naomi Tingchen Yeh	Visiting Graduate Student	01/2011 – 02/2011
Yuling Lindsay Chuang	Visiting Graduate Student	08/2011 – 10/2011
Jing Wu ⁴⁹	Visiting Scholar	03/2012 – 06/2012
Gregory Armstrong ⁵¹	Undergraduate Summer Intern	05/2012 – 08/2012
Stephen Allman	Undergraduate Summer Intern	05/2012 – 08/2012
Allante Harrison	IRIS Undergraduate Summer Intern	05/2013 – 07/2013
Gavin Rinaldo	SCEC Undergraduate Summer Intern	05/2013 – 08/2013
Paul Morgan	SCEC Undergraduate Summer Intern	06/2013 – 08/2013
Zac Kannan	GT Undergraduate Researcher	05/2013 – 12/2013
Jessica Zimmerman ⁷²	SCEC Undergraduate Summer Intern	05/2013 – 07/2013
Wei Yang ⁷¹	Visiting Scholar	10/2013 – 01/2014
Baoshan Wang ^{71,81}	Senior Visiting Scholar	12/2013 – 02/2014
Abhey Bansal ⁸⁴	Fulbright Senior Visiting Scholar	03/2014 – 09/2014
Lu Li ^{81,82}	Visiting Graduate Student	10/2014 – 10/2015
Jing Wu	Visiting Scholar	01/2015 – 01/2016
Clara Daniels	SCEC Undergraduate Summer Intern	06/2015 – 08/2015
Eva Smith	SCEC Undergraduate Summer Intern	06/2015 – 08/2015
Bridget Casey	SCEC Undergraduate Summer Intern	06/2015 – 08/2015
Zhuo Yang	USTC Undergraduate Summer Intern	07/2015 – 09/2015
Sizhuang Deng	USTC Undergraduate Summer Intern	07/2015 – 09/2015
Libo Han	Visiting Scholar	11/2015 – 12/2015
Clara Daniels	IRIS Undergraduate Summer Intern	06/2016 – 08/2016
Gillian Goldhagen	IRIS Undergraduate Summer Intern	06/2016 – 08/2016
Miguel Neves	Visiting Graduate Student	10/2016 – 11/2016
Chenyuan Zhang	Visiting Scholar	03/2016 – 03/2017
Ryo Kurihara	Visiting Graduate Student	08/2017 – 09/2017
Mitchell Spangler	IRIS Undergraduate Summer Intern	06/2018 – 08/2018
Harrison Schumann	IRIS Undergraduate Summer Intern	06/2018 – 08/2018
Weilai Pei	Visiting Graduate Student	08/2017 – 09/2018
Jinxin Hou	Visiting Graduate Student	02/2018 – 02/2019
Lu Li	Visiting Scholar	11/2018 – 01/2019
Yangfan Deng	Visiting Scholar	09/2018 – 11/2019
Qiu Zhong	Visiting Scholar	09/2018 – 11/2019

**Publications (124; H-index: 44 on 04/2022 – from Google Scholar
<https://scholar.google.com/citations?user=fKotWVMAAAAJ&hl=en>)**

* *students/postdoc advised or help advised*

Peer-Reviewed:

1. Ben-Zion, Y., Z. Peng, D. Okaya, L. Seeber, J. G. Armbruster, N. Ozer, A. J. Michael, S. Baris and M. Aktar (2003), A shallow fault zone structure illuminated by trapped waves in the Karadere-Düzce branch of the north Anatolian fault, western Turkey, *Geophys. J. Int.*, *152*, 699–717.
2. Peng, Z., Y. Ben-Zion, A. J. Michael and L. Zhu (2003), Quantitative analysis of fault zone waves in the rupture zone of the Landers, 1992, California earthquake: Evidence for a shallow trapping structure, *Geophys. J. Int.*, *155*, 1021–1041.
3. Peng, Z. and Y. Ben-Zion (2004), Systematic analysis of crustal anisotropy along the Karadere-Düzce branch of the north Anatolian fault, *Geophys. J. Int.*, *159*, 253–274.
4. Peng, Z. and Y. Ben-Zion (2005), Spatio-temporal variations of crustal anisotropy from similar events in aftershocks of the 1999 M7.4 İzmit and M7.1 Düzce, Turkey, earthquake sequences, *Geophys. J. Int.*, *160*, 1027–1043.
5. Lewis*, M. A., Z. Peng, Y. Ben-Zion and F. L. Vernon (2005), Shallow seismic trapping structure in the San Jacinto fault zone near Anza, California, *Geophys. J. Int.*, *162*, 867–881.

6. Peng, Z., J. E. Vidale, C. Marone and A. Rubin (2005), Systematic variations in moment with recurrence interval of repeating aftershocks, *Geophys. Res. Lett.*, 32(15), L15301, doi: 10.1029/2005GL022626.
7. Peng, Z., and Y. Ben-Zion (2006), Temporal changes of shallow seismic velocity around the Karadere-Düzce branch of the north Anatolian fault and strong ground motion, *Pure Appl. Geophys.* “Advances in Studies of Heterogeneities in the Earth's Lithosphere: The Keiiti Aki Volume II”, 163, 567-599.
8. Peng, Z., J. E. Vidale, and H. Houston (2006), Anomalous early aftershock decay rates of the 2004 M6 Parkfield earthquake, *Geophys. Res. Lett.*, 33, L17307, doi:10.1029/2006GL026744.
9. Peng, Z., J. E. Vidale, M. Ishii, and A. Helmstetter (2007), Seismicity rate immediately before and after main shock rupture from high-frequency waveforms in Japan, *J. Geophys. Res.*, 112, B03306, doi:10.1029/2006JB004386.
10. Zhao*, P., and Z. Peng (2008), Velocity contrast along the Calaveras fault from analysis of fault zone head waves generated by repeating earthquakes, *Geophys. Res. Lett.*, 35, L01303, doi:10.1029/2007GL031810.
11. Gomberg, J., J. L. Rubinstein, Z. Peng, K. C. Creager, and J. E. Vidale (2008), Widespread triggering of non-volcanic tremor in California, *Science*, 319, 173, doi: 10.1126/science.1149164.
12. Fischer*, A., Z. Peng, and C. G. Sammis (2008), Dynamic triggering of high-frequency bursts by strong motions during the 2004 Parkfield earthquake sequence, *Geophys. Res. Lett.*, 35, L12305, doi:10.1029/2008GL033905.
13. Peng, Z., K. Koper, J. E. Vidale, F. Leyton, and P. M. Shearer (2008), Inner-core fine-scale structure from scattered waves recorded by LASA, *J. Geophys. Res.*, 113, B09312, doi:10.1029/2007JB005412.
14. Peng, Z., and K. Chao* (2008), Non-volcanic tremor beneath the Central Range in Taiwan triggered by the 2001 Mw7.8 Kunlun earthquake, *Geophys. J. Int.* (Fast track), 175, 825–829, doi: 10.1111/j.1365-246X.2008.03886.x.
15. Peng, Z., J. E. Vidale, K. C. Creager, J. L. Rubinstein, J. Gomberg, and P. Bodin (2008), Strong tremor near Parkfield, CA excited by the 2002 Denali Fault earthquake, *Geophys. Res. Lett.*, 35, L23305, doi:10.1029/2008GL036080.
16. Wu*, C., Z. Peng and Y. Ben-Zion (2009a), Non-linearity and temporal changes of fault zone site response associated with strong ground motion, *Geophys. J. Int.*, 176, 265-278, doi: 10.1111/j.1365-246X.2008.04005.x.
17. Yang*, W., Z. Peng, and Y. Ben-Zion (2009), Variations of strain-drops in aftershocks of the 1999 Izmit and Duzce earthquakes along the Karadere-Duzce branch of the North Anatolian fault, *Geophys. J. Int.*, 177, 235–246, doi: 10.1111/j.1365-246X.2009.04108.x.
18. Peng, Z., J. E. Vidale, A. Wech, R. M. Nadeau and K. C. Creager (2009), Remote triggering of tremor along the San Andreas fault in central California, *J. Geophys. Res.*, 114, B00A06, doi:10.1029/2008JB006049.
19. Chao*, K., and Z. Peng (2009), Temporal changes of shear wave velocity and anisotropy in the shallow crust induced by the 10/22/1999 M6.4 Chia-Yi, Taiwan, earthquake, *Geophys. J. Int.*, 179, 1800–1816, doi: 10.1111/j.1365-246X.2009.04384.x.
20. Zhao*, P., and Z. Peng (2009), Depth extent of damage zones around the central Calaveras fault from waveform analysis of repeating earthquakes, *Geophys. J. Int.*, 179, 1817–1830, doi: 10.1111/j.1365-246X.2009.04385.x.
21. Wu*, C., Z. Peng, and D. Assimaki (2009b), Temporal changes in site response associated with strong ground motion of 2004 Mw6.6 Mid-Niigata earthquake sequences in Japan, *Bull. Seismol. Soc. Am.*, 99(6), 3487–3495, doi: 10.1785/0120090108.
22. Peng, Z., and P. Zhao* (2009), Migration of early aftershocks following the 2004 Parkfield earthquake, *Nature Geosci.*, 2, 877–881, doi: 10.1038/ngeo697.
23. Ghosh, A., J. E. Vidale, Z. Peng, K. C. Creager and H. Houston (2009), Complex non-volcanic tremor near Parkfield triggered by the great 2004 Sumatra earthquake, *J. Geophys. Res.*, 114, B00A15, doi:10.1029/2008JB006194.

24. Zhao*, P., Z. Peng, Z. Shi, M. Lewis, and Y. Ben-Zion (2010), Variations of the velocity contrast and rupture properties of M6 earthquakes along the Parkfield section of the San Andreas fault, *Geophys. J. Int.*, 180, 765–780, 10.1111/j.1365-246X.2009.04436.x.
25. Wu,* C., Z. Peng, and Y. Ben-Zion (2010), Refined thresholds for nonlinear ground motion and temporal changes of site response associated with medium size earthquakes, *Geophys. J. Int.*, 183, 1567-1576, doi: 10.1111/j.1365-246X.2010.04704.x.
26. Tang*, C.-C., Z. Peng, K. Chao, C.-H. Chen, and C.-H. Lin (2010), Detecting low-frequency earthquakes within non-volcanic tremor in Southern Taiwan triggered by the 2005 Mw8.6 Nias Earthquake, *Geophys. Res. Lett.*, 37, L16307, doi:10.1029/2010GL043918.
27. Guilhem, A., Z. Peng, and R. M. Nadeau (2010), High-frequency identification of non-volcanic tremor along the San Andreas Fault triggered by regional earthquakes, *Geophys. Res. Lett.*, 37, L16309, doi:10.1029/2010GL044660.
28. Peng, Z. and J. Gomberg (2010), An integrated perspective of the continuum between earthquakes and slow-slip phenomena, *Nature Geosci.*, 3, 599–607, doi:10.1038/ngeo940.
29. Jiang, T., Z. Peng, W. Wang, and Q.-F. Chen (2010), Remotely triggered seismicity in Continental China by the 2008 Mw7.9 Wenchuan earthquake, *Bull. Seismol. Soc. Am.*, 100(5B), 5274–5289, doi: 10.1785/0120090286.
30. Zhao*, P., Z. Peng, and K. Sabra (2010), Detecting remotely triggered temporal changes around the Parkfield section of the San Andreas Fault, *Earthquake Science*, 23, “Special Issue on Ambient Noise Seismology”, 497–509, doi: 10.1007/s11589-010-0748-0.
31. Peng, Z., D. P. Hill, D. R. Shelly and C. Aiken* (2010), Remotely triggered microearthquakes and tremor in Central California following the 2010 Mw8.8 Chile Earthquake, *Geophys. Res. Lett.*, 37, L24312, doi:10.1029/2010GL045462.
32. Peng, Z., W. Wang, Q.-F. Chen, and T. Jiang (2010), Remotely triggered seismicity in northeast China following the 2008 Mw7.9 Wenchuan earthquake, *Earth Planets Space*, 62, 893–898, doi:10.5047/eps.2009.03.006.
33. Peng, Z., C. Wu*, and C. Aiken* (2011), Delayed triggering of microearthquakes by multiple surface waves circling the Earth, *Geophys. Res. Lett.*, 38, L04306, doi: 10.1029/2010GL046373.
34. Wu*, C., Z. Peng, W. Wang, and Q.-F. Chen (2011), Dynamic triggering of shallow earthquakes near Beijing, China, *Geophys. J. Int.*, 185, 1321–1334, doi: 10.1111/j.1365-246X.2011.05002.x.
35. Shelly, D. R., Z. Peng, D. P. Hill and C. Aiken* (2011), Triggered creep as a possible mechanism for delayed dynamic triggering of tremor and earthquakes, *Nature Geosci.*, 4, 384–388, doi: 10.1038/ngeo1141.
36. Fry, B., K. Chao*, S. C. Bannister, Z. Peng, and L. Wallace (2011), Deep tremor in New Zealand triggered by the 2010 Mw8.8 Chile earthquake, *Geophys. Res. Lett.*, 38, L15306, doi: 10.1029/2011GL048319.
37. Peng, Z., L. T. Long, and P. Zhao* (2011), The relevance of high-frequency analysis artifacts to remote triggering, *Seismol. Res. Lett.*, 82(5), 654-660, doi: 10.1785/gssrl.82.5.654.
38. Wu*, C., and Z. Peng (2011), Temporal changes of site response during the M9.0 off the Pacific coast of Tohoku earthquake, *Earth Planets Space*, 63(7), 791-795, doi:10.5047/eps.2011.06.011.
39. Chao*, K., Z. Peng, C. Wu*, C.-C. Tang*, and C.-H. Lin (2012), Remote triggering of non-volcanic tremor around Taiwan, *Geophys. J. Int.*, 188, 301-324, doi: 10.1111/j.1365-246X.2011.05261.x.
40. Kilb, D., G. Biasi, J. Anderson, J. Brune, Z. Peng, and F L. Vernon (2012), A Comparison of estimates of spectral parameter kappa from small and moderate earthquakes using Southern California ANZA seismic network data, *Bull. Seismol. Soc. Am.*, 102(1), 284-300, doi: 10.1785/0120100309.
41. Peng, Z., C. Aiken*, D. Kilb, D. Shelly, B. Enescu (2012), Listening to the 2011 magnitude 9.0 Tohoku-Oki, Japan earthquake, *Seismol. Res. Lett.*, 83(2), 287-293, doi: 10.1785/gssrl.83.2.287.
42. Kilb, D., Z. Peng, D. Simpson, A. Michael, M. Fisher* and D. Rohrlick (2012), Listen, watch, learn: SeisSound video products, *Seismol. Res. Lett.*, 83(2), 281-286, doi: 10.1785/gssrl.83.2.281.
43. Chao*, K., Z. Peng, A. Fabian, and L. Ojha (2012), Comparisons of triggered tremor in California, *Bull. Seismol. Soc. Am.*, 102(2), 900-908, doi: 10.1785/0120110151.

44. Ozakin, Y., Y. Ben-Zion, M. Aktar, H. Karabulut and Z. Peng (2012), Velocity contrast across the 1944 rupture of the North Anatolian fault east of Ismetpasa from analysis of teleseismic arrivals, *Geophys. Res. Lett.*, 39, L8307, doi:10.1029/2012GL051426.
45. Gonzalez-Huizar, H., A. A. Velasco, Z. Peng and R. Castro (2012), Remote triggered seismicity caused by the 2011, M9.0 Tohoku-Oki, Japan earthquake, *Geophys. Res. Lett.*, 39, L10302, doi:10.1029/2012GL051015.
46. Holschneider, M., C. Narteau, P. Shebalin, Z. Peng, and D. Schorlemmer (2012), Bayesian analysis of the modified Omori law, *J. Geophys. Res.*, 117, B06317, doi:10.1029/2011JB009054.
47. Meng*, X., X. Yu, Z. Peng and B. Hong (2012), Detecting earthquakes around Salton Sea following the 2010 M_w 7.2 El Mayor-Cucapah earthquake using GPU parallel computing, *Procedia Computer Science*, 9, 937-946.
48. Lengine, O., B. Enescu, Z. Peng, and K. Shiomi (2012), Decay and migration of the early aftershock activity following the Tohoku Mw9.0 2011 earthquake, *Geophys. Res. Lett.*, 39, L18309, doi:10.1029/2012GL052797.
49. Wu*, J., Z. Peng, W. Wang, X. Gong, Q. Chen and C. Wu* (2012), Comparisons of dynamic triggering near Beijing, China following the recent Sumatra earthquakes, *Geophys. Res. Lett.*, 39, L21310, doi:10.1029/2012GL053515.
50. Wu*, C., and Z. Peng (2012), Long-term change of site response after the Mw9.0 Tohoku earthquake in Japan, *Earth Planets Space*, 64, 1259-1266, doi:10.5047/eps.2012.05.012.
51. Peng, Z., H. Gonzalez-Huizar, K. Chao*, C. Aiken*, B. Moreno, and G. Armstrong* (2013), Tectonic tremor beneath Cuba triggered by the Mw8.8 Maule and Mw9.0 Tohoku-Oki earthquakes, *Bull. Seismol. Soc. Am.*, 103(1), 595-600, doi: 10.1785/0120120253.
52. Bennington, N. L., C. Thurber, Z. Peng, H. Zhang, and P. Zhao* (2013), Incorporating fault zone head wave and direct wave secondary arrival times into seismic tomography: Application at Parkfield, California, *J. Geophys. Res.*, 118, 1-7, doi: 10.1002/jgrb.50072.
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54. Wu*, C., D. R. Shelly, J. Gomberg, Z. Peng, and P. Johnson (2013), Long-term changes of recurrence interval for regular and low-frequency earthquakes near Parkfield, CA, *Earth Planet. Sci. Lett.*, 368, 144-150, doi: 10.1016/j.epsl.2003.03.007.
55. Hill, D. P., Z. Peng, D. R. Shelly, and C. Aiken* (2013), S-wave triggering of tremor beneath the Parkfield, CA, section of the San Andreas Fault by the 2011 Tohoku-Oki Japan earthquake: observations and theory, *Bull. Seismol. Soc. Am.*, 103(2b), 1541-1550, doi: 10.1785/0120120114.
56. Chao*, K., Z. Peng, H. Gonzalez-Huizar, C. Aiken*, B. Enescu, H. Kao, A. A. Velasco, K. Obara and T. Matsuzawa (2013), A global search of triggered tremor following the 2011 Mw9.0 Tohoku-Oki earthquake, *Bull. Seismol. Soc. Am.*, 103(2b), 1551-1570, doi: 10.1785/0120120171.
57. Tang*, C.-C., Z. Peng, C.-H. Lin, K. Chao*, and C.-H. Chen (2013), Statistical properties of low-frequency earthquakes triggered by large earthquakes in Southern Taiwan, *Earth Planet. Sci. Lett.*, 373, 1-7, doi: j.epsl.2013.04.039.
58. Meng*, X., Z. Peng, and J. Hardebeck (2013), Seismicity around Parkfield correlates with static shear stress changes following the 2003 Mw6.5 San Simeon earthquake, *J. Geophys. Res.*, 118(7), 3576-3591, doi:10.1002/jgrb.50271.
59. Yang, H., and Z. Peng (2013), Lack of additional triggered tectonic tremor around the Simi Valley and the San Gabriel Mountain in Southern California, *Bull. Seismol. Soc. Am.*, 103(6), 3372-3378, doi: 10.1785/0120130117.
60. Gong, X., Q.-F. Chen, Z. Peng, W. Wang, Q. Wu and J. Wu (2014), Remotely triggered seismicity around the Fangshan Pluton near Beijing following the 2010 Mw 8.8 Chile earthquake, *Chinese J. Geophys.*, 57(1), 115-128, doi:10.6038/cjg20140101.
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In Review/In Preparation:

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15. Peng, Z. and Y. Deng (2022), Rapid communications of preliminary results for the recent magnitude 6.6 Menyuan, Qinghai, China earthquake helps scientists better study intraplate earthquakes, *Earthquake Research Advances*, 2(1), doi:10.1016/j.eqrea.2022.100119.

Invited Seminars

1. China Seismic Experimental Site 2nd annual workshop, Beijing, China, 11/03/2020-11/04/2020: "Recent development in foreshock detection and its physical mechanism".
2. 40th Anniversary of the Seismological Society of China, Dalian, China, 08/14/2019-08/16/2019: "Microearthquake detection from template matching to machine learning".
3. Institute of Geodesy and Geophysics, Chinese Academy of Sciences, Wuhan, China, 08/12/2019: "Systematic detection of foreshocks with template matching".
4. School of Earth Sciences, China University of Geosciences, Wuhan, China, 08/11/2019: "Earthquake triggering around the Tibetan plateau".
5. School of Geophysics, Chengdu University of Technology, Chengdu, China, 08/07/2019: "Systematic detections of intermediate-depth and deep-focus earthquakes".
6. 107th Annual Meeting of the Chinese Geophysics Union, Chia-Yi, Taiwan, 05/02/2018-05/03/2018: "Recent development in seismology and future perspective".
7. Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China, 07/27/2018: "Recent development in seismology and future directions".

8. School of Geophysics, Chengdu University of Technology, Chengdu, China, 07/12/2018: “Deep learning for seismic phase detection and picking in the aftershock zone of 2008 M 7.9 Wenchuan Earthquake”.
9. School of Earth and Space Sciences, University of Science and Technology of China, Hefei, China, 07/04/2018: “Repeating earthquakes, deep tectonic tremor and their relationship with slow-slip events”.
10. Department of Earth and Environmental Sciences, Michigan State University, 03/22/2018: “Mining earthquakes and slow slip from large seismic data along major plate boundary faults”.
11. Department of Earth and Space Sciences, University of Washington, Seattle, 03/12/2018: “Mining earthquakes and slow slip from large seismic data along major plate boundary faults”.
12. School of Earth Sciences and Engineering, Sun Yat-Sen University, June 2017: “Systematic Detection of Microearthquakes along the Longmenshan Fault Zone and Their Relationship with the Zipingpu Reservoir”.
13. School of Geophysics, Chengdu University of Technology, June 2017: “Human induced seismicity: A Historic Review and Recent Development”.
14. Department of Geosciences, University of Houston, April 2017: “Microearthquake/Tremor Detection Based on Template Matching and Future Development”.
15. Victoria University of Wellington, Wellington, New Zealand, February 2017: “Spatio-Temporal Variations of Fault Zone Properties”.
16. GNS Science, Lower Hutt, New Zealand, January 2017: “Global Search for Triggered Tremor and Microearthquakes”.
17. Department of Earth and Planetary Sciences, Macquarie University, Sydney, Australia, December 2016: “*Matched Filter Technique for Microearthquake Detections: Recent Development and Future Directions*”.
18. Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington CD, November 2016: “*Fluid-driven Seismicity inside the Earth Revealed by Waveform Matching Methods*”.
19. Key laboratory of Seismic Observation and Geophysical Imaging, China Earthquake Administration, Beijing, China, July 2016: “*Slow earthquakes/tectonic tremor*”, “*A short tutorial on waveform cross-correlation and repeating earthquakes*”.
20. Sichuan Provincial Seismological Bureau, Chengdu, China, June 2016: “*Fault zone imaging: a historic review and recent development*”.
21. Institute of Earthquake Sciences and Institute of Geology, China Earthquake Administration; and Institute of Theoretical and Applied Geophysics, Peking University, Beijing, China, June 2016: “*Microearthquake detection: Matched filter detection and recent development*”.
22. Earthquake Research Institute, University of Tokyo, Japan, September 2015: “Systematic detection of foreshocks from waveform matching methods”.
23. Joint Workshop on Slow Earthquakes, Nagoya, Japan, September 2015: “Interactions between fast and slow earthquakes”.
24. Seismological Laboratory, Caltech, Pasadena; School of Earth and Atmospheric Sciences, Georgia Tech, Atlanta, September 2015: “Mining big seismic data with waveform matching method”.
25. Institute of Geology and Geophysics, China Academy of Sciences, Beijing, China, August 2015: “Earthquake interaction at regional distances”.
26. Key laboratory of Seismic Observation and Geophysical Imaging, China Earthquake Administration, Beijing, China, August 2015: “Spatio-temporal variations of fault-zone properties from fault zone guided waves and shear-wave anisotropy”.
27. Institute of Geology, China Earthquake Administration, Beijing, China, August 2015: “Systematic detection of foreshocks from waveform matching methods”.
28. Institute of Earthquake Sciences, China Earthquake Administration, Beijing, China, August 2015: “Mining seismic wavefield: application of waveform matching method to big seismic data”.
29. Department of Geology and Geophysics, University of Utah, June 2015: “Improved understanding of earthquake interaction from waveform matching method”.

30. Institute of Earth Sciences, Academic Sinica, Taiwan, May 2015: “Foreshocks, aftershocks, induced and triggered earthquakes: what can we learn from waveform detection methods”.
31. Department of Earth Sciences, National Chong-Cheng University, Chiayi, Taiwan, May 2015: “Improved understanding of earthquake interaction from waveform matching method”.
32. The 4th CeGP Workshop, Atlanta, GA, March 2015: “Integration of Active and Passive Source Seismology”.
33. Training School on "Earthquakes: nucleation, triggering and relationship with aseismic processes", Corsica, France, November, 2014: “Remote triggering of deep tremor, shallow microearthquakes and icequakes”.
34. Kavli Symposium, Irvine, CA, November 2014: “Remote Triggering of Slow Slip Earthquakes”
35. Island Marine Underwriters Association Professional Development Program, Atlanta, GA, October 2014:” Natural and Induced Earthquakes in the Central and Eastern US: What we know and what we don’t know?”.
36. INGV, Rome, Italy, July 2014: "Earthquake triggering from near-field to long-range distance".
37. Institut de Physique du Globe Paris, France, July 2014: "Remote Triggering of Shallow Earthquakes and Deep Tremor".
38. ISTERE, University Joseph Fourier, Grenoble, France, June 2014:"Improved understanding of earthquake interaction from waveform matching technique".
39. Geozsur, University of Nice, France, June 2014:"Improved understanding of earthquake triggering from waveform matching technique”.
40. School of Earth and Space Sciences, University of Science and Technology of China, Hefei, China, June 2014: “Earthquake Triggering from Near-Field to Long-Range Distances”.
41. Unconventional Natural Gas Institute, China University of Petroleum, June 2014: “Improved understanding of earthquake interaction through waveform matching technique”.
42. Institute of Geology and Geophysics, China Academy of Sciences, Beijing, China, June 2014: “Systematic analysis of earthquake interaction and fault zone properties around the Tibetan Plateau”.
43. Key laboratory of Seismic Observation and Geophysical Imaging, China Earthquake Administration, May 2014: “How to Write/Read/Review Scientific Papers in English”.
44. State Key Laboratory of Geohazard Prevention and Geoenvironment Protection, Chengdu University of Technology, May 2014: “Earthquake triggering from near field to long-distance range”.
45. Department of Earth Sciences, National Central University, May 2014: “Earthquake triggering from near-field to long-range distance”.
46. Institute of Geophysics, University of Texas, Austin, March 2014: “*Earthquake triggering from near field to long-range distances*”.
47. Microseismic division, Schlumberger, Houston, Texas, March 2014: “*Slow slip, triggered earthquake and their Implications in microseismic monitoring*”.
48. Department of Terrestrial Magnetism, Carnegie Institution of Washington, July 2013: “*Triggered tectonic tremor and interaction of large earthquakes*”.
49. Institute of Tibetan Plateau Research, Chinese Academy of Sciences, July 2013: “*Improved understanding of earthquake interaction from waveform matching technique*”.
50. Key laboratory of Seismic Observation and Geophysical Imaging, China Earthquake Administration, July 2013: “*Systematic detection of foreshocks from waveform matching technique*”.
51. National Research Institute for Earth Science and Disaster, Tsukuba, Japan, June 2013: “*Improved understanding of triggered tremor and earthquakes from waveform matching technique*”.
52. Disaster Prevention Research Institute, Kyoto University, Japan, June 2013: “*Improved understanding of earthquake interaction from waveform matching technique*”.
53. Department of Earth and Planetary Science, University of Tokyo, Japan, June 2013: “*Improved understanding of earthquake triggering from waveform matching technique*”.
54. Earthquake Research Institute, University of Tokyo, Japan, June 2013: “Global search of triggered tectonic tremor”.

55. Department of Geological Sciences, University of North Carolina, April 2013: “Deep tectonic tremor and its relationship to great earthquakes”.
56. School of Industrial & System Engineering, Georgia Tech, March 2013: “Earthquake seismology, state-of-the-art and future directions”.
57. Earth and Environmental Sciences, Los Alamos National Laboratory, February 2013: “*Improved understanding of earthquake triggering from waveform detected aftershocks*”.
58. Sichuan Provincial Seismological Bureau, Chengdu, China, July 2012: “*Improved understanding of earthquake triggering by waveform detection of aftershocks*”.
59. State Key Laboratory of Geodesy and Earth's Dynamics, Institute of Geodesy and Geophysics, Wuhan, China, July 2012: “*Improved understanding of earthquake triggering by waveform detection of aftershocks*”.
60. The Earth Observatory, Nanyang Technological University, Singapore, July 2012: “*Global search of deep non-volcanic tremor*”.
61. Institute of Earthquake Sciences, China Earthquake Administration, and Institute of Geology and Geophysics, China Academy of Sciences, Beijing, China, July 2012: “*High-resolution imaging of deep fault interfaces*”.
62. School of Earth and Space Sciences, University of Science and Technology of China, Hefei, China, June 2012: “*Global triggering of earthquakes, tremor and icequakes*”; “*Nonlinear strong ground motion and temporal changes of site response*”.
63. Department of Geological Sciences, San Diego State University, April 2012: “*Improved understanding of earthquake triggering by waveform detection of aftershocks and tremor*”.
64. Department of Geosciences, Georgia State University, January 2012: “*Listening to the 2011 magnitude 9.0 Tohoku-Oki, Japan earthquake*”.
65. Institutes of Geology and Earthquake Sciences, China Earthquake Administration; School of Earth and Space Sciences, University of Science and Technology of China, July 2011: “*Understanding earthquake triggering by waveform detection of aftershocks and tremor*”.
66. Institutes of Geophysics and Crustal Dynamics, China Earthquake Administration; China Earthquake Network Center, July 2011: “*Dynamic triggering following large distant earthquakes*”.
67. Keynote speaker in the Earthscope workshop on “The Spectrum of Fault Slip Behaviors”, Portland, Oregon, October 2010: “*Triggering, tremor, and slow-slip phenomena*”.
68. School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, August 2010: “*Triggering, tremor, and slow-slip phenomena*”.
69. USGS Earthquake Science Center's Seminar series, Menlo Park, CA, July 2010: “*Understanding earthquake triggering by waveform detection of early aftershocks and low-frequency earthquakes*”.
70. Atlanta Geological Survey, Fernbank Museum, Atlanta, May 2010: “*Do earthquakes talk to each other at large distances?*”.
71. Department of Geosciences, Princeton University, Princeton, NJ, September 2009: “*Remote triggering of tremor and earthquakes*”.
72. Institute of Earth Sciences, Academia Sinica; Taipei; National Central University; National Chung Cheng University; National Taiwan Normal University; Taiwan, March 2009: “*Remote triggering of non-volcanic tremor*”, “*Temporal changes in the upper crust associated with major earthquakes*”.
73. Seismological Laboratory, Caltech, Pasadena, CA, March 2009: “*Global search of ‘triggered’ non-volcanic tremor*”.
74. Workshop on “New Challenges In Earthquake Dynamics: Observing And Modelling A Multi-Scale System”, Obergurgl, Austria, October 2008: “*Systematic analysis of early aftershocks: implications for earthquake physics and fault mechanics*”.
75. Institute of Theoretical and Applied Geophysics, Peking University, June 2008: “*Remote triggering of non-volcanic tremors*”.
76. School of Earth and Space Sciences, University of Science and Technology of China, June 2008: “*Temporal changes in active fault zones and shallow crust associated with strong ground motion of large earthquakes*”, “*Remote triggering of non-volcanic tremors*”.

77. Institute of Geology, Chinese Earthquake Administration, June 2008: “*Remote triggering of non-volcanic tremors*”.
78. Department of Geosciences, Georgia State University, March 2008: “*Remote triggering of non-volcanic tremors*”.
79. School of Civil and Environmental Engineering, Georgia Tech, March 2008: “*Temporal changes, high-frequency bursts, and strong ground motion*”.
80. Department of Earth Sciences, University of Southern California, February 2007: “*Temporal changes in the upper crust associated with major earthquakes: a tale of three stories*”.
81. Geological Sciences, Brown University, Providence, RI, June 2006: “*Time-dependent changes of fault zone properties from systematic analysis of repeating earthquakes*”.
82. Department of Earth Sciences, University of California, Riverside, CA, May 2006: “*Deriving earthquake source physics from short-term earthquake triggering and repeating aftershocks*”.
83. Department of Earth Sciences, University of California, Riverside, CA, May 2006: “*High resolution imaging of fault zone structures and time-dependent changes of fault zone properties*”.
84. School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA, April 2006: “*High resolution imaging of fault zone structures and time-dependent changes of fault zone properties*”.
85. Department of Earth Sciences, University of Southern California, CA, November 2005: “*Implications for friction and fault zone rheology from short-term triggering and repeating aftershocks*”.
86. IGPP Friday Geophysics Seminar Series, University of California, San Diego, CA, May 2005: “*Implications for friction and fault zone rheology from early and repeating aftershocks*”.
87. USGS Earthquake Hazards Team Seminar Series, Menlo Park, CA, February 2005: “*Anomalous early aftershock decay rates*”.
88. Seismological Laboratory, Caltech, Pasadena, CA, January 2005: “*What can learn from repeating aftershocks?*”
89. Department of Earth and Space Sciences, University of California, Los Angeles, October 2004: “*I: Anomalous early aftershock decay rates; II: repeating aftershocks.*”
90. Seismological Laboratory, Department of Earth and Planetary Science, University of California, Berkeley, CA, August 2004: “*High-resolution imaging of fault zone structures from quantitative analysis of trapped waves.*”
91. The Bellaire Technology Center, Shell Oil Company, Houston, TX, May 2004: “*Spatio-temporal variations of crustal anisotropy and seismic velocity along the Karadere-Düzce branch of the north Anatolian fault.*”
92. Department of Earth and Space Sciences, University of California, Los Angeles, CA, January 2004: “*Spatial and temporal distributions of crustal anisotropy and seismicity rate changes during the 1999 İzmit and Düzce earthquake sequences.*”
93. Scripps Institution of Oceanography, University of California, San Diego, CA, July 2003: “*Quantitative analysis of seismic trapped waves in the Karadere-Düzce branch of the North Anatolian fault, the rupture zone of the Landers, 1992, California earthquake, and in the San Jacinto fault zone near Anza, California: Evidence for a shallow trapping structure.*”

Abstracts (talks and invited contributions marked, not updated since 2017):

1. Ji, M., C. Li, Z. Peng and J.I. Walter (2017), Remote Triggering of Microseismicity in Antarctica, Abstract C41D-1262 presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
2. Li, C., Z. Li, Z. Peng and C. Zhang (2017), Detecting Micro-seismicity and Long-duration Tremor-like Events from the Oklahoma Wavefield Experiment, Abstract S41C-0797 presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
3. Pei, S., Z. Peng and X. Chen (2017), Locations of injection-induced earthquakes in Oklahoma controlled by crustal structures, Abstract S23C-0813 presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
4. Peng, Z., D. Yao, J. Su, X. Ruan, F. Long, and X. Meng (2017), Re-evaluating the possible link between the Zipingpu reservoir and 2008 Mw7.9 Wenchuan earthquake, Abstract NH21C-0189

- presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
5. Walter, J., Z. Peng and S. Hansen (2017), Repeating ice-earthquakes beneath David Glacier from the 2012-2015 TAMNET array, Abstract C41D-1261 presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
 6. Wdowinski, S., Z. Peng, K. Ferrier, C.-H. Lin, Y.-J. Hsu, and J.B.H. Shyu (2017), Cascading hazards: Understanding triggering relations between wet tropical cyclones, landslides, and earthquakes, Abstract T53C-02 presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
 7. Yao, D., Z. Peng, B. Fry, L. Wallace, Y. Kaneko and X. Meng (2017), Dynamically Triggering of Microseismicity in the North Island of New Zealand following the Mw7.8 Kaikoura Earthquake, Abstract S23B-0799 presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
 8. Zhu, L., Z. Li, C. Li, B. Wang, Z. Chen, J.H. McClellan and Z. Peng (2017), Machine-Learning Inspired Seismic Phase Detection for Aftershocks of the 2008 MW7.9 Wenchuan Earthquake, Abstract S41D-08 presented at 2017 Fall Meeting, AGU, New Orleans, L.A., 11-15 Dec.
 9. Peng, Z., and X. Lei (2017), Comparisons of induced seismicity in Canada, China and United States, abstract presented at the Eastern-Section Seismological Society of America Annual Meeting, Norman, OK, Oct. 8-10.
 10. Pei, W., S. Zhou, D. Yao, Z. Peng and Z. Hu (2017), Simulation of reservoir induced microearthquakes around the epicenter of the 2008 Wenchuan earthquake, abstract presented at the Eastern-Section Seismological Society of America Annual Meeting, Norman, OK, Oct. 8-10.
 11. Hobbs, T.E., A.V. Newman and Z. Peng (2017), Defining the temporal relationship between afterslip and aftershocks using dense seismic and geodetic networks in Nicoya, Costa Rica, *Seismol. Res. Lett.*, 88(2b), 561.
 12. Li, C., Z. Peng, C. Zhang, D. Yao, and X. Meng (2017), Temporal Changes in Seismicity and Seismic Velocities in Salton Sea Geothermal Field, *Seismol. Res. Lett.*, 88(2b), 571.
 13. Peng, Z., B. Fry, K. Chao and X. Meng (2017), Remote Triggering of Microearthquakes and Deep Tectonic Tremor In New Zealand Following the 2016 M7.8 Kaikoura earthquake, abstract submitted to the Annual Seismological Society of America meeting, Denver, CO.
 14. Peng, Z., B. Fry, L. Wallace, and D. Yao (2017), Systematic Search for Repeating Earthquakes in New Zealand, abstract submitted to the Annual Seismological Society of America meeting, Denver, CO.
 15. Qin, Y. X. Chen, Z. Peng, and C. Aiken (2017), Dynamic triggering study in Woodward, Oklahoma, abstract submitted to the Annual Seismological Society of America meeting, Denver, CO.
 16. Yao, D., Z. Peng, X. Ruan, F. Long, J. Su, X. Liu and C. Zhang (2017), Long-Term Seismic Behavior Around the Epicenters of the 2008 Mw7.9 Wenchuan Earthquake, abstract submitted to the Annual Seismological Society of America meeting, Denver, CO.
 17. Zhu, L., Z. Li, Z. Peng, E. Liu and J. H. McClellan (2017), Weighted RAndom sampling in Seismic Event Detection/Location (WRASED): Applications to Local, Regional and Global Seismic Networks, abstract submitted to the Annual Seismological Society of America meeting, Denver, CO.
 18. Ayorinde, A.O., Z. Peng, D. Yao and A.R. Bansal (2016), Systematic Detection of Remotely Triggered Seismicity in Africa Following Recent Large Earthquakes, Abstract S31B-2729 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
 19. Chao, K., K. Obara, Z. Peng, H.-C. Pu, W. Frank, G.A. Prieto, A. Wech, Y.-J. Hsu, C. Yu, S.V. Lee, and D.W. Apley (2016), Tectonic tremor activity associated with teleseismic and nearby earthquakes, Abstract S41C-08 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
 20. Chen, X, R.E. Abercrombie, C. Pennington, X. Meng and Z. Peng (2016), Source parameter validations using multiple-scale approaches for earthquake sequences in Oklahoma: implications for earthquake triggering processes, Abstract S13A-2515 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.

21. Daniels, C., Z. Peng, Z. Li, Z. E. Ross, J. Wu and S. Su (2016), Detecting Possible Fault Zone Head Waves Along the Longmenshan Fault Zone Using Aftershocks of the 2013 Mw6.7 Lushan Earthquake, Abstract S53A-2800 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
22. Goldhagen, G., C. Li, Z. Peng, J. Wu and L. Zhao (2016), Seismicity Increase in North China After the 2008 Mw7.9 Wenchuan Earthquake, Abstract S53A-2836 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
23. Li, Z., Z. Peng and D. Yao (2016), Microseismic event detection and location using local coherence and subarray beamforming: applications to the Long Beach 3D array and the Hi-CLIMB linear array, Abstract S31E-05 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
24. Liang, X., D. Yao, X. Meng, Z. Peng, X. Tian, and Y.J. Chen (2016), Enhanced seismicity at a geothermal spot in southern Tibet following 2004 Mw 9.1 Sumatra earthquake, Abstract S31B-2734 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
25. Liu, X., H. Huang, Z. Peng and Q. Liu (2016), Numerical modeling of clogging/unclogging mechanism for delayed injection-induced seismicity in fractured crystalline rock, Abstract S31B-2754 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
26. Newman, A.V., D. Yao, C. Kyriakopoulos, M.M. Moore-Driskell, T.E. Hobbs, Z. Peng and S.Y. Schwartz (2016), The Possible Decapitation of a Megathrust Indenter: Evidence from Imaging of Time-dependent Microseismic Structures before and after the 2012 Mw 7.6 Nicoya, Costa Rica, Abstract T53A-01 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
27. Peng, Z., X. Chen, Z. Li, D. Yao, C. Zhang, X. Liu, C. Pennington, Y. Qin (2016), Monitoring seismic activities at Fairview and Woodward area in Oklahoma, Abstract S43C-2867 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
28. Qin, A. X. Chen, Z. Peng and C. Aiken (2016), Dynamic Earthquake Triggering on Seismogenic Faults in Oklahoma, Abstract S53A-2808 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
29. Schwartz, S.Y., M. Protti, V. Gonzalez, T.H. Dixon, A.V. Newman, Z. Peng and Y. Jiang (2016), Advances in Understanding the Seismogenic Plate Interface From Nearly Two Decades of Geodetic and Seismic Observations on the Nicoya Peninsula, Costa Rica, Abstract T51I-01 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
30. Zhang, C., Z. Peng, X. Liu, and Q. Liu (2016), Improvement in In-Situ Rheological Stress Measurements with Acoustic Wave Data, Abstract MR41A-2687 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
31. Yao, D., J. Wu, Z. Peng, J. Su and F. Long (2016), Repeating Aftershocks following the 2013 Mw6.6 Lushan earthquake, abstract submitted to the Annual Eastern Section of Seismological Society of America meeting, Reston, Virginia, Oct. 23-26.
32. Chen, X., Z. Peng, X. Meng, C. Chen, J. Haffener and J. Chang (2016), Detailed analysis of an earthquake cluster potentially driven by a low-volume disposal well in central Oklahoma, *Seismo. Res. Lett.*, 87(2B), 477-478.
33. Han, L., Z. Peng, D. Yao*, J. Su and F. Long (2016), Foreshock and aftershock detections around the 2014 Mw6.1 Kangding earthquake, *Seismo. Res. Lett.*, 87(2B), 481.
34. Han, L., Z. Peng, L. Li, B. Wang and J. Wu (2016), Shallow microearthquakes near Chongqing, China triggered by the Rayleigh waves of the 2015 M7.8 Gorkha, Nepal earthquake, *Seismo. Res. Lett.*, 87(2B), 481.
35. Li*, C., Z. Peng, and D. Yao* (2016), Early Aftershock Sequences of the 2015 Mw7.5 Hindu Kush Intermediate-Depth Earthquake by Waveform Matching Detection, *Seismo. Res. Lett.*, 87(2B), 545-546.
36. Li*, Z., and Z. Peng (2016), Automatic detection and classification of seismic events, *Seismo. Res. Lett.*, 87(2B), 501.
37. Yao*, D., X. Meng*, Z. Peng, A.V. Newman, J. Walter*, S. Schwartz, and M. Protti (2016), Detailed spatio-temporal evolution of aftershocks and repeating earthquakes following the 2012 Mw7.6 Nicoya earthquake, *Seismo. Res. Lett.*, 87(2B), 463-464.

38. Bilek, S., W. Phillips, J. Walter, Z. Peng, S. Schwartz, M. Brudzinski, and D. Yao* (2015), Source Parameters for Repeating Earthquakes along the Middle America Trench (invited), Abstract S44A-01 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
39. Li*, C., G. Liu, Z. Peng, F. Brenguier, and J. Dufek (2015), Remote Triggering of Microearthquakes in the Piton de la Fournaise and Changbaishan Volcanoes Monday, Abstract S13B-2830 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
40. Meng*, X., C. Daniels*, E. Smith*, Z. Peng, X. Chen, L. Wagner, K. Fisher, and R. Hawman (2015), Statistical discrimination of induced and tectonic earthquake sequences in Central and Eastern US based on waveform detected catalogs, Abstract S13B-2851 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
41. Meng*, X., Z. Peng, S. Deng* and R. Castro (2015), Systematic Study of Foreshocks and Triggered Earthquakes During the 2010 Mw7.2 El Mayor-Cucapah Earthquake Sequence (Invited), Abstract T41A-2846 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
42. Walter*, J.I., H. Kao, X. Meng*, Z. Peng, T. Hobbs, P. Dotray, A. Newman and T. Mulder (2015), Dynamic interactions between the October 28th 2012 Haida Gwaii and January 5th 2013 Craig earthquakes and other faults in Southeast Alaska, Abstract S13D-07 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
43. Yeh*, T.-C., K. Chen, W.-T. Liang, Z. Peng and K. Chao* (2015), Dynamic Triggering of Earthquakes and Tremors in Taiwan, Abstract S13B-2829 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
44. Li*, Z., Z. Peng, X. Meng*, A. Inbal, Y. Xie, D. Hollis and J.-P. Ampuero (2015), Matched filter detection of microseismicity in Long Beach with a 5200-station dense array, Society of Exploration Geophysicists extended meeting abstract 2015, 2615-2619.
45. Peng, Z., Z. Li*, X. Meng*, A. Inbal, D. Hollis and J. P. Ampuero (2015), Matched filter detection of microseismicity in Long Beach with a 5200-station dense array, *Seismol. Res. Lett.*, 86(2B), 594.
46. Meng*, X. and Z. Peng (2015), Improved understanding of moderate-size earthquake sequences on the San Jacinto Fault and their relationship with deep creep, *Seismol. Res. Lett.*, 86(2B), 659.
47. Li*, L., Z. Peng, B. Wang and J. Wu (2015), Dynamic triggering in Yunnan following the 2012 Indian Ocean earthquake, *Seismol. Res. Lett.*, 86(2), 685.
48. Li*, Z., Z. Peng, Y. Ben-Zion and F. L. Vernon (2015), Shear-wave anisotropy near the San Jacinto Fault Zone, Southern California, *Seismol. Res. Lett.*, 86(2B), 722.
49. Aiken*, C., K. Obara, Z. Peng, K. Chao and T. Maeda (2014), Sweet Spot Tremor Triggered by Intralab Earthquakes in the Nankai Subduction Zone, Abstract S53C-4525 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
50. Bilek, S., W. Phillips, J. Walter, S. Schwartz, Z. Peng and H. Rotman (2014), Temporal and spatial variations of earthquake source parameters within the 2012 Nicoya, Costa Rica Mw=7.6 earthquake rupture zone, Abstract S32B-02 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
51. Ching, K.-E., R.-J. Rau, K. Wang Z. Peng and Y.-J. Wang (2014), 2009 slow slip event under the Northeast Taiwan at the backarc extension of the Ryukyu subduction zone from continuous GPS data, Abstract T23D-04 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
52. Li*, L., B. Wang, Z. Peng and W. Wang (2014), S43A-4529 Seismic Observations of the 15 February 2013 Chelyabinsk Meteor from Dense ChinArray, Abstract S43A-4529 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
53. Li*, Z., Z. Peng, Y. Ben-Zion, Z. Ross and F. Vernon (2014), Variations of crustal anisotropy along the San Jacinto fault zone, southern California, Abstract S23B-4492 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
54. Meng*, X. and Z. Peng (2014), Statistical Discrimination of Induced and Tectonic Earthquake Sequences in Central and Eastern US Based on Waveform Detected Catalogs, Abstract S51A-4387 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

55. Meng*, X., Z. Peng, C. Aiken, and D. Kilb (2014), Dynamically triggered earthquakes in the Geysers region following the 2014 M6.0 South Napa earthquake, Abstract S44D-07 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
56. Peng, Z., B. Wang, X. Ruan, X. Meng, H. Tu, F. Long and J. Su (2014), Systematic detection of seismic activity before recent large earthquakes in China, Abstract S21C-4457 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
57. Peng, Z., D. Shelly, W. Ellsworth, and C. Aiken* (2014), Tectonic tremor along the Parkfield-Cholame section of the San Andreas Fault triggered by the 2014 M6.0 South Napa and other regional earthquakes, Abstract S33F-4929 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
58. Walter*, J. Z. Peng S. Tulaczyk and L. Beem (2014), Ice Stream Slip Triggered by Distant Earthquakes, Abstract C53A-0277 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
59. Yang*, H., X. Meng*, Z. Peng, A. Newman, S. Hu and A. Williamson (2014), Imaging and understanding foreshock and aftershock behavior around the 2014 Iquique, Northern Chile, Earthquake, Abstract S41C-4496 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
60. Yao*, D., J. Walter, X. Meng*, Z. Peng, S. Schwartz and M. Protti (2014), Postseismic slip inferred from repeating earthquakes following the 2012 Mw 7.6 Nicoya earthquake in Costa Rica, Abstract G43B-0509 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
61. Peng, Z. (2014), Detecting temporal changes in active fault zones during large earthquake cycles, *Seismol. Res. Lett.*, 85(2), 478 (**Invited Talk**).
62. Peng, Z., J. I. Walter*, R. Aster, A. Nyblade, D. Wiens, and S. Anandakrishnan (2014), Icequakes triggered by surface waves from large teleseismic earthquakes, *Seismol. Res. Lett.*, 85(2), 505.
63. Yang, W., Z. Peng, B. Wang, Z. Li*, X. Meng*, S. Yuan and S. Qiao (2014), Velocity contrast along Ganzi-Yushu Fault from analysis of Fault Zone Head Waves associated with aftershocks of 2010 Mw6.9 Yushu, Qinghai Earthquake, *Seismol. Res. Lett.*, 85(2), 454.
64. Walter*, J., H. Kao, Z. Peng, C. Aiken* and J. Zimmerman* (2014), Investigating dynamic interactions between the October 2012 Haida Gwaii and January 2013 Craig earthquakes, *Seismol. Res. Lett.*, 85(2), 465.
65. Wang, B., H. Yang*, Z. Peng, J. Yang, L. Han, W. Yang, S. Yuan, and X. Meng* (2014), High-resolution aftershock distribution of 2010 Mw6.9 Yushu, China earthquake and its implication, *Seismol. Res. Lett.*, 85(2), 454.
66. Aiken*, C., Z. Peng, D. R. Shelly, D. P. Hill, H. Gonzalez-Huizar, K. Chao*, J. P. Zimmerman*, R. Douilly, A. Deschamps, J. S. Haase, and E. Calais (2013), Tectonic tremor triggered along major strike-slip faults around the world, Abstract S51B-2362 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
67. Bilek, S. L., J. I. Walter*, A. V. Newman, S. Y. Schwartz, and Z. Peng (2013), Analysis of small earthquake source parameters along the Nicoya Peninsula: Probing changes following the 2012 Mw=7.6 earthquake and within slow slip and tremor zones, Abstract S41B-2433 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
68. Chao*, K., K. Obara, S. Nagai, N. Hirata, H.-C. Pu, Z. Peng, Y.-J. Hsu, A. Wech, K.-E. Ching, P.-L. Leu, T.-C. Shin, and B.-S. Huang (2013), Non-volcanic tremor characteristics and tremor generation environment in Taiwan and a case study of their stress interaction with local earthquakes, Abstract S51D-06 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
69. Enescu, B., K. Chao*, K. Obara, Z. Peng, T. Matsuzawa and Y. Yagi (2013), Remote Love wave triggering of tremor in the Nankai subduction zone: new observations and dynamic stress modeling, Abstract S42B-03 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
70. Gonzalez-Huizar, H., A. A. Velasco, M. C. Ruiz, H. Tavera, V. Kostoglodov, B. Moreno, R. R. Castro, Z. Peng, R. Burgmann, C. R. Escudero, E. Minaya, L. C. G. Cano, E. Talavera, and W.

- Quiroz (2013), Collaborative investigation of remotely triggered tremor and earthquakes in Latin America, Abstract S42B-01 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
71. Harrison*, A. D., X. Meng*, and Z. Peng (2013), Detection of missing earthquakes within the Barnett Shale of Texas using the USArray, Abstract S33D-2448 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
 72. Li*, Z., H. Yang*, Z. Peng, Y. Ben-Zion, and F. Vernon (2013), Low velocity zones along the San Jacinto Fault, Southern California, inferred from local earthquakes, Abstract T53D-2620 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
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