Yu Jeffrey Gu

Professor of Geophysics
University of Alberta (**U of A**)
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Education

2001	Ph.D in Geophysics	Harvard University
2000	Msc. in Computer Science	Harvard University
1996	Msc. in Geophysics	Harvard University
1994	Bsc in Physics	Kenyon College

Employment

2018-	Professor of Geophysics	University of Alberta
2010-2017	Associate Professor of Geophysics	University of Alberta
01/2004-2009	Assistant Professor of Geophysics	University of Alberta
06/2003-05/2004	Lamont-Doherty Postdoctoral Fellow	Columbia University
06/2001-05/2003	Postdoctoral Fellow	Harvard University
06/2000-12/2000	Half-time Software Engineer	Cambridge Interactive Inc.
09/1994-06/2001	Graduate Research Assistant	Harvard University

List of Publications (refereed)

1. R Schultz, D Eaton, G Atkinson, YJ Gu and H Kao. Hydraulic fracturing completion volume is associated with induced earthquake productivity in the Duvernay play. ***Science***, 359, 304-308, 2018. [IF=37.205]

2. **R Dokht**, YJ Gu and M Sacchi. Migration imaging of the Java subduction zones. *J. Geophys. Res.*, **accepted**, 2018. [IF=3.318]

3. **S Simon**, C Thomas, R Dokht, YJ Gu and Y Chen. Resolution improvement and reconstruction of global seismic data using *fk*-methods. *Geophys. J. Int*, 212, 1288-1301, 2017. [IF=2.484]

4. **L Wu**, V Kravchinsky, YJ Gu and D Potter. Absolute reconstruction of the closing of the Mongol-Okhotsk Ocean in the Mesozoic elucidates the genesis of the slab geometry underneath Eurasia. *J. Geophys. Res.*, 122, doi:10.1002/2017JB014261, 2017. [IF=3.318]

5. **R Wang**, YJ Gu, R Schultz, M Zhang and A Kim. Source characteristics and geological implications of the January 2016 induced earthquake swarm near Crooked Lake, Alberta. *Geophys. J. Int.*, 210, doi:10.1093/gji/ggx204, 2017. [IF=2.484]

6. Q Liu, YJ Gu and H Yao. Understanding Earth's internal structures and earthquake source mechanisms – the seminal contributions of Adam Dziewonski. *Scientia Sinica Terrae*, 47, 509-517, 2017.

7. **R Dokht**, YJ Gu and M Sacchi. Singular spectrum analysis and its applications in mapping mantle seismic structure. *Geophys. J. Int.*, 208, 1430-1442, 2017. [IF=2.484]

8. **Y Chen**, YJ Gu and S Hung. Finite-frequency P-wave tomography of the Western Canada Sedimentary Basin: Implication for the Lithosphere Evolution in Western Laurentia. *Tectonophys.*, 698, 79-90, 2017. [IF=2.433]

9. GM Atkinson, DW Eaton, H Ghofrani, D Walker, B Cheadle, **R Schultz**, R Shcerhbokov, K Tiampo, YJ Gu, RM Harrington, Y Liu, M van der Baan and H Kao. Hydraulic fracturing and seismicity in the western Canada Sedimentary Basin. *Seismo. Res.* Lett., 87, 631-647, 2016. [IF=2.25]

10. **R Wang**, YJ Gu, R Schultz, A Kim and GM Atkinson. Source analysis of a potential hydraulic fracturing-induced earthquake near Fox Creek, Alberta. *Geophys. Res. Lett.*, 43, 564-573, 2016. [IF=4.412]

11. **X Bao**, D Eaton and YJ Gu. Rayleigh wave azimuthally anisotropic phase velocities beneath western Canada. *J. Geophys. Res.*, 121, 1821-1834, 2016. [IF=3.318]

12. **R Schultz**, **R Wang**, YJ Gu, C Haug and GM Atkinson. A Comprehensive overview of the induced seismicity in the Duvernay play near Fox Creek, *J. Geophys. Res.*, 122, 492-505, 2016. [IF=3.318]

13. **F Clerc**, RM Harrington, Y Liu and YJ Gu. Stress drop estimates and hypocenter relocation of induced seismicity near Crooked Lake, Alberta. *Geophys. Res. Lett*, 43, 6942-6951, doi:10.1002/2016GL069800, 2016. [IF=4.212]

14. **R Dokht,** YJ Gu and M Sacchi. Waveform inversion of SS precursors: an investigation of the northwestern Pacific subduction zones and intraplate volcanoes in China. *Gondwana Research*, 40, 77-90, 2016. [IF=8.743]

15. **R Schultz**, S Mei, D Pana, VH Stern, YJ Gu, A Kim and D Eaton. The Cardston earthquake swarm and hydraulic fracrurering of the Exshaw formation. *Bull. Seism. Soc. Am.*, 105, 2871-2884, 2015. [IF=2.311]

16. YJ Gu, **Y Zhang**, M Sacchi, **Y Chen** and S Contenti. Sharp mantle transition from cratons to Cordillera in southwestern Canada. *J. Geophys. Res.*, 120, 5051-5069, 2015. [IF=3.318]

17. **Y Chen**, YJ Gu, **R Dokht** and M Sacchi. Crustal imprints of Proterozoic Orogenesis in western Laurentia. *J. Geophys. Res.*, 120, 6993-7012, doi:10.10002/2014JB011802, 2015. [IF=3.318]

18. **R Schultz**, VH Stern, **M Novakovic**, G. Atkinson and YJ Gu. Hydraulic fracturing and the Crooked Lake sequence: insights gleaned from regional seismic networks. *Geophys. Res. Lett.*, doi: 10.1002/2015GL063455, 2015. [IF=4.212]

19. **R Schultz**, VH Stern, YJ Gu and DW Eaton. Detection threshold and location resolution of the Alberta Geological Survey earthquake Catalogue. *Seis. Res. Lett.*, 86, doi: 10.1785/0220140203, 2015. [IF=2.25]

20. YJ Gu and **L Shen**. Noise correlation tomography of Southwest Western Canada Sedimentary Basin. *Geophys. J. Int.*, 202, 142-162, 2015. [IF=2.484]

21. **R Schultz**, VH Stern and YJ Gu. An investigation of seismicity clustered near the Cordel Field, west central Alberta, and its relation to a nearby disposal well. *J. Geophys. Res.*, 119, 3410-3423, doi:10.1002/2013JB010836, 2014. [IF=3.318]

22. **R Schultz** and YJ Gu. Multi-resolution imaging of mantle reflectivity structures using SS and P'P' precursors. *Geophys. J. Int.*, doi:10.1093/gji/ggt266, 2013. [IF=2.284]

23. VH Stern, **R Schultz**, **L Shen**, YJ Gu and D Eaton. Alberta Earthquake Catalogue, Version 1.0: September 2006 through December 2010, *Open File Report 2013-15*, Alberta Geological Survey, 2013.

24. **T Tran**, **L Stiglitz**, YJ Gu and L Le. Propagation of Ultrasound Guided waves in a bone plate with and without overlying soft tissue. *Ultrasound in Medicine and Biology*, doi:10.1016/j.ultrasmedbio.2013.06.007, 2013. [IF=2.099]

25. **R Schultz** and YJ Gu. Flexible, inversion-based Matlab implementation of the Radon transform. *Compu. Geosci.*, 52, 437-442, 2013. [IF=2.54]

26. **IV Rodriguez**, M Sacchi and YJ Gu. Compressed domain inversion of the seismic source parameters. *Geophys. J. Int.*, doi:10.1111/j.1365-246X.2012.05659.x, 2012. [IF=2.484]

27. YJ Gu, **A Okeler** and **R Schultz**. Tracking Slabs in Western Pacific Subduction Zones. *Earth. Planet. Sci. Lett.*, 331-332, 269-280, 2012. [IF=4.724]

28. Q Liu and YJ Gu. Seismic imaging: from classical to adjoint tomography. *Tectonophysics*, doi:10.1016/j.tecto.2012.07.006, 2012. [IF=2.433]

29. **S Contenti**, YJ Gu, **A Okeler** and M Sacchi. Shear wave reflectivity imaging of Nazca-South America subduction zone: stagnant slab in the mantle transition zone? *Geophys. Res. Lett.*, 39, L02310, doi:10.1029/2011GL050064, 2012. [IF=4.212]

30. YJ Gu and **L Shen**. Microseismic noise from large ice-covered lakes. *Bull. Seis. Soc. Am.*, 102, doi:10.1785/0120100010, 2012. [IF=2.313]

31. **IV Rodriguez**, M Sacchi and YJ Gu. Simultaneous recovery of origin time, hypocenter location, and seismic moment tensor using sparese representation theory. *Geophys. J. Int.*, 188, 1188-1202, 2012. [IF=2.484]

32. YJ Gu, **A Okeler**, **L Shen**, and **S Contenti**. The Canadian Rockies and Alberta Network (CRANE): New constraints on the Rockies and Western Canada Sedimentary Basin. *Seism. Res. Lett.*, 82, 575-588, 2011. [IF=2.25]

33. L Le, YJ Gu, **Y Li** and **C Chan**. Probing long bones with ultrasonic body waves. *Appl. Phys. Lett.,* 96, 114102, 2010. [IF=3.142]

34. **IV Rodriguez**, M Sacchi and YJ Gu. Continuous hypocenter and source mechanism inversion via a Green's function-based matching pursuit algorithm. *The Leading Edge*, 29, 334-337; doi:10.1190/1.3353731, 2010.

35. YJ Gu, Eds. *Arrays and array methods in global seismology*, 1st Edition, VI, 274 pages, 103 illus., ISBN: 978-90-481-3679-7, Springer, 2010.

36. YJ Gu and MJ Rycroft. Preface to the Special Issue on "Arrays and array methods in global seismology". *Surveys in Geophys.*, doi:10.1007/s10712-009-9080-4, 2009. [IF=3.622]

37. YJ Gu and M Sacchi, Radon transform methods and their applications in global Seismology. *Surveys in Geophys.*, doi: 10.1007/s10712-009-9076-0, 2009. [IF=3.622]

38. YJ Gu, **A Okeler**, **K Brzak**, **S Contenti**, **K Kocon** and **L Shen**. Broadband seismic array deployment and data analysis in Alberta. *CSEG Recorder*, Sept., 37-44, 2009.

39. **A Okeler,** YJ Gu, M Steckler and A Lerner-Lam. Seismic structure and anisotropy at the base of the crust beneath the Southern Apennines. *Geophys. J. Int.*, doi:10.1111/j.1365-246X.2009.04229.x, 2009. [IF=2.484]

40. YJ Gu, **Y An**, MD Sacchi, **R Schultz**, and J Ritsema. Mantle reflectivity structure beneath oceanic hotspots. *Geophys. J. Int.*, doi:10.1111/j.1365-246X.2009.04242.x, 2009. [IF=2.484]

41. **K Brzak,** YJ Gu, **A Okeler**, M Steckler and A Lerner-Lam. Migration imaging and forward modeling of microseismic noise sources near southern Italy. *Geochem, Geophys, Geosys.*, doi:10.1029/2008GC002234, 2009. [IF=3.29]

42. YJ Gu, **C Dublanko**, A Lerner-Lam, **K Brzak** and M Steckler. Probing the sources of ambient seismic noise beneath Southern Italy. *Geophys. Res. Lett.,* 34, doi:10.1029/2007GL031967, 2007. [IF=4.212]

43. **Y An**, YJ Gu and M Sacchi. Imaging mantle discontinuities using least-squares Radon transform. *J. Geophys. Res.,* 112, doi:10.1029/2007JB005009, 2007. [IF=3.318]

44. **C Escalante**, YJ Gu and M Sacchi. Simultaneous iterative time-domain deconvolution to teleseismic receiver functions. *Geophys. J. Int.,* doi:10.1111/j.1365-246x.-2007.03511.x, 2007. [IF=2.484]

45. YJ Gu. Probing the history of the Mathematician Paleoplate using surface waves. *Tectonophysics,* 424, 41-51, 2006. [IF=2.433]

46. **X Yang,** YJ Gu, P Shen, X Liu and Z Zheng. A study of the adaptive method for decoupling overlapped seismic records. *Pure and Appl. Geophys.,*163 , 8, 1515-1536, 2006. [IF=1.677]

47. YJ Gu, S Webb, A Lerner-Lam and JB Gaherty. Upper mantle structure beneath the eastern Pacific Ocean ridges. *J. Geophys. Res.*, 110, B06305, 1-18, doi:10.1029/2004JB003381, 2005. [IF=3.318]

48. YJ Gu, A Lerner-Lam, AM Dziewonski and G. Ekstrom. Seismic evidence for deep anisotropy beneath the East Pacific Rise. *Earth Planet. Sci. Lett.,* 232, 3-4, 259-272, 2005. [IF=4.724]

49. YJ Gu, AM Dziewonski and G Ekstrom. Simultaneous inversion for mantle shear velocity and topography of transition zone discontinuities. *Geophys. J. Int.*, 154, 559-583, 2003. [IF=2.484]

50. M Antolik, YJ Gu, AM Dziewonski and G Ekstrom. A new joint model of compressional and shear velocity in the mantle. *Geophys. J. Int.,* 153, 443-466, 2003. [IF=2.484]

51. X Li, R Kind, X Yuan, SV Sobolev, W Hanka, DS Ramesh, YJ Gu and AM Dziewonski. Seismic detection of narrow strong oceanic plumes and relation to mantle transition zone temperature. *Geophys. Res. Lett.*, 30, doi:10.1029/2002GL015411, 2003. [IF=4.212]

52. YJ Gu and AM Dziewonski. Global variability of transition zone thickness. *J. Geophys. Res.*, 107(B7), 2135, doi:10.1029/2001JB000489, 2002. [IF=3.318]

53. YJ Gu. Upper mantle transition zone: structure and topography of discontinuities. *Thesis*, 227pp, Harvard University, 2001.

54. YJ Gu, AM Dziewonski and G Ekstrom. Preferential detection of the Lehmann discontinuity beneath continents. *Geophys. Res. Lett.*, 28, 4655-4658, 2001. [IF=4.212]

55. YJ Gu, AM Dziewonski, W-J Su and G Ekstrom. Models of the mantle shear velocity and discontinuities in the pattern of lateral heterogeneities. *J. Geophys. Res.*, 106, 11169-11199, 2001. [IF=3.318]

56. YJ Gu, AM Dziewonski and CB Agee. Global de-correlation of the topography of transition zone discontinuities. *Earth Planet. Sci. Lett.*, 157, 57-67, 1998. [IF=4.724]

Conference Papers

Refereed

1. **R Wang**, YJ Gu and M Zhang. Hydraulic-fracturing induced seismicity in western Canada: insights from focal mechanism and swarm analysis. *SEG Microseismic Technologies & Applications Workshop*, Hefei, 2017.

2. V Stern and YJ Gu. Documenting Alberta seismicity with Boulder Real Time Technologies (BRTT) Antelope software. *Geohazard5 -- 5th Canadian conference on Geotechnique and natural hazard*, 7 pages, Vancouver, 2011.

3. **IV Rodriguez**, MD Sacchi and YJ Gu. Toward a nearly real-time system for event hypocenter and source mechanism recovery via compressive sensing. *SEG, 4 pages*, Calgary, 2010.

4. YJ Gu. Discussion of Seismic observations of transition zone discontinuities beneath hotspot locations by Arwen Deuss. GSA Special Paper 430: *Plates, Plumes, and Planetary processes*, G. R. Foulger and D. M. Jurdy, Eds., 134-135, 2007.

5. YJ Gu. Eds. Special Issue: the great 2004 Sumatra-Andaman Earthquake and Tsunami. *Surv. Geophys.*, 27 (6), ISSN: 0169-3298, 2006. [IF=3.677]

List of Highly Qualified Personnel (HQP)

Undergraduate [Total = 17]

2017/05 - 2017/08 **Brooklin Nguyen**, University of Alberta
Degree Expected Date: 2017/06
Project: Attenuation analysis of Alberta
Present Position: Undergraduate, University of Alberta

2016/05 - 2016/08 **Jianyue Shen**, University of Alberta
Degree Expected Date: 2017/06
Project: A study of induced earthquakes using broadband seismic records
Present Position: Undergraduate, University of Alberta

2015/05 - 2016/08 **Javad Yusifbayov**, University of Alberta
Degree Expected Date: 2017/06
Project: Seismic databasing and shear wave splitting analysis
Present Position: Undergraduate, University of Alberta

2014/05 - 2014/08 **Jason Winters**, University of Alberta
Degree Expected Date: 2016/06
Project: Broadband seismic databasing and analysis
Present Position: Lifeguard, YMCA

2014/05 - 2014/08 **Elenor Stern**, University of Alberta

Degree Expected Date: 2017/06
Project: Seismic attenuations structure beneath Alberta
Present Position: Undergraduate, University of Alberta

2012/05 - 2012/08 **Ahmed Alhani**, University of Alberta
Degree Expected Date: 2017/06
Project: Waveform simulation of bone ultrasound
Present Position: Geophysicist, Saudi Aramco

2010/05 - 2010/08 **Sean Contenti**, University of Alberta
Degree Expected Date: 2011/06
Project: Mantle imaging using secondary arrivals
Present Position: Geophysicist, Imperial Oil Inc.

2010/05 - 2010/08 **Todd Bown**, University of Alberta
Degree Expected Date: 2011/06
Project: Imaging of mantle seismic discontinuities
Present Position: Geophysicist, OptaSense Ltd.

2009/06 - 2010/03 **Luyi Shen**, University of Alberta
Degree Expected Date: 2010/06
Project: Broadband seismic analysis of Alberta
Present Position: Geophysicist, Alberta Geological Survey

2009/05 - 2009/08 **Yuping Li**, University of Alberta
Degree Expected Date: 2012/06
Project: Waveform modeling of bone ultrasound records
Present Position: Dentist, Ellerslie 66 Dental Clinic

2008/05 - 2008/08 **Kenny Kocon**, University of Alberta
Degree Expected Date: 2009/06
Project: Shear wave splitting under western Canada
Present Position: MSc. Student, McMaster University

2007/05 - 2007/03 **Ryan Schultz**, University of Alberta
Degree Expected Date: 2009/06
Project: Imaging mantle discontinuities using SS precursors
Present Position: Geophysicist, Alberta Geological Survey

2007/05 - 2007/08 **Keith Brzak**, University of Alberta
Degree Expected Date: 2008/06
Project: Ambient noise correlation analysis and modeling
Present Position: Geophysicist, Advisian

2007/05 - 2007/08 **Curtis Dublanko**, University of Alberta
Degree Expected Date: 2009/06
Project: Ambient noise correlation analysis of Italy
Present Position: Engineer, Profile Energy Inc.

2006/05 - 2006/08 **Jason Huang**, University of Alberta
Degree Expected Date: 2009/06
Project: Broadband seismic deployment and analysis
Present Position: Petroleum engineer, Canadian Pacific Railway

2005/05 - 2005/08 **Leeyen Chong**, University of Alberta
Degree Expected Date: 2007/06
Project: Earthquake scaling relationships

Present Position: NA

2005/05 - 2005/08 **Josh Davidson**, University of Alberta
Degree Expected Date: 2007/06
Project: Software design for mantle reflector imaging
Present Position: NA. Computer Science MSc, University of Alberta (2014)

MSc Student [Total = 7]

2016/02 - 2016/05 **Simon Schneider**, University of Munster *[Co-supervised]*
Degree Received: 2016/09
Project: Mantle Discontinuities and the improvement of seismic methods
Present Position: PhD student, Universiteit Utrecht
Scholarship: 2014 German Exchange Student Scholarship (2014)

2012/09 - 2014/06 **Yunfeng Chen**, University of Alberta
Degree Received: 2014/06
Project: Lithospheric structure imaging of Alberta from regional broadband seismic network
Present Position: PhD student, University of Alberta

2011/01 - 2014/01 **Luyi Shen**, University of Alberta
Degree Received: 2014/06
Project: Broadband seismic analysis of the crust and noise sources in Alberta
Present Position: Geophysicist, Alberta Geological Survey

2011/09 - 2013/08 **Ryan Schultz**, University of Alberta
Degree Received: 2014/06
Project: Multi-scale mantle reflectivity imaging using secondary seismic arrivals
Present Position: Geophysicist, Alberta Geological Survey
Scholarship: 2012 Rutherford Scholarship, Jason Lang Scholarship, Roy Hibbs Graduate Scholarship CAPP Scholarship, CSEG Scholarship, Graduate Teaching Award
2013 Queen Elizabeth II Graduate Scholarship, Golden Key International Honor Society Member
2015, 2016 Alberta Energy Regulator Award of Excellence

2010/09 - 2013/09 **Sean Contenti**, University of Alberta *[Co-supervised]*
Degree Received: 2014/06
Project: Regional reflectivity analyses of the upper mantle using SS precursors and receiver functions
Present Position: Geophysicist, Imperial Oil Inc.
Scholarship: 2013 Graduate Teaching Award

2009/09 - 2011/09 **Lauren Stieglitz**, University of Alberta *[Co-supervised]*
Degree Received: 2012/06
Project: Modeling of ultrasound waves in bones
Present Position: Geophysicist, CGGVeritas Inc.
Scholarship: 2011 NSERC Graduate Scholarship

2007/09 - 2009/09 **Yuling An**, University of Alberta *[Co-supervised]*
Degree Received: 2010/06
Project: Radon transform and its applications in mantle reflector imaging

Present Position: Geophysicist, CGGVeritas Inc.

PhD Student [Total = 7]

2013/09 – present **Ruijia Wang**, University of Alberta
Degree Expected: 2018/06
Project: Source analysis of induced earthquakes in Alberta
Present Position: Graduate student, University of Alberta
Scholarship: 2014 CGU Outstanding Student Paper Award, Professional Development Award 2015 University Doctoral Recruitment Award, CAPP Scholarship, Roy Hibbs Memorial Scholarship, 2016 IGR Roy Dean Hibbs Scholarship, AAPG Grand-in-Aid Scholarship, AGU Best Student Paper Award

2013/09 – present **Yunfeng Chen**, University of Alberta
Degree Expected: 2018/06
Project: Crust and mantle seismic structures beneath the Western Canada Sedimentary Basin
Present Position: Graduate student, University of Alberta
Scholarship: 2014 KEGS Foundation Book Award, 2016, Edo Nyland Scholarship, 2017 Grant-in-Aid Scholarship

2012/02 - 2016/05 **Ramin H. Dokht**, University of Alberta
Degree Received: 2017/06
Project: Array seismic imaging of the Earth's crust and mantle
Present Position: Postdoctoral Fellow, Pacific Geoscience Center (PGC)
Scholarship: 2015 Dean's Excellence Award, 2016 Graduate Teaching Award

2015/03 - 2016/03 **Yuanyin Zhang**, China University of Petroleum
Degree Received: 2016/06
Project: Mantle seismic imaging using receiver functions
Present Position: Postdoctoral Fellow, SINOPEC (China)
Scholarship: 2014 China Scholarship Council Visitor Scholarship

2008/09 - 2012/08 **Ismael Vera Rodriguez**, University of Alberta *[Co-supervised]*
Degree Received: 2013/06
Project: Near real-time estimation of the seismic source parameters in a compressed domain
Present Position: Geophysicist, Schlumberger (England)
Scholarship: 2010 Alberta Innovates Scholarship, 2011 CSEG Scholarship, 2012 SEG Scholarship

2005/09 – 2010/08 **Ahmet Okeler**, University of Alberta
Degree Received: 2011/06
Project: Broadband seismic imaging of subduction zones
Present Position: Research Scientist, Harvard University
Scholarship: 2006 Doctoral Recruitment Award

Post-doctoral fellow [Total = 3]

2013/09 – present **Le Wu**, University of Alberta
Degree Received: 2017/06

Project: Shear wave splitting and seismic anisotropy

2010/09 – 2011/06 **Ahmet Okeler**, University of Alberta
Degree Received: 2011/06
Project: Redwater background seismicity analysis
Present Position: Research Scientist, Harvard University
Scholarship: 2010 Harvard University Postdoctoral Fellowship

2006/09 – 2007/05 **Adam Baig**, University of Alberta *[Research Associate]*
Degree Received: 2018/06
Project: Receiver function analysis of CRANE stations
Present Position: Geophysicist, ESG Solutions

Editorial Duties

2016-present	Guest Associate Editor of Tectonics (impact factor = 3.75)
2013-present	Member of Canadian Consortium of Induced Seismicity
2005-present	Associate Editor of Surveys in Geophysics (impact factor = 3.62)
2005-present	Member of Westgrid and Compute Canada
2005-present	Regular member of AGU
2014-2016	Associate Editor of Journal of Seismology (impact factor = 1.55)
2009	Guest Editor of Special Issue "*Arrays and array methods in global seismology*", Surveys in Geophysics.
2006	Guest Editor of Special Issue "*The Great Sumatra-Andaman Tsunami Earthquake",* Surveys in Geophysics.

Note: *CGU = Canadian Geophysical Union; AGU = American Geophysical Union*