

Curriculum Vitae

Kerry Sieh

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Academic Degrees

Ph.D. (Geology), Stanford University, 1977

“Late Holocene Displacement History along the South-Central Reach of the San Andreas Fault”

A.B. with highest honors (Geology), University of California, Riverside, 1972

Professional positions

Nanyang Technological University

Founding Director Emeritus, Earth Observatory of Singapore (2020 01 and continues)

Visiting Professor (3 months in total 2020-2021)

Director, Earth Observatory of Singapore, 2008-2019

AXA-Nanyang Chair in Natural Hazards, 2012-2019

Professor 2008 07 - 2020 01

California Institute of Technology

Robert P. Sharp Professor of Geology, 2003-2008

Assistant Professor, Associate Professor, Professor, 1977-2009

Principal Research Activities

Earthquake geology (neotectonics and paleoseismology)

Tsunami geology

Extraterrestrial impact geology

Distinctions and Awards

Honorary member, Association of Engineering Geologists, 2018

Fellow of the American Association for the Advancement of Science (AAAS), 2017

Harry Fielding Reid Medal, 2013, Seismological Society of America (SSA)

Best Paper Award, 2012, Geological Society of America, Structural Geology Division (for Yule and Sieh, 2003)

Fellow, American Geophysical Union, 2001

Member, National Academy of Sciences, 1999

Fellow, Geological Society of America, 1996

National Academy of Sciences Award for Initiatives in Research, 1982

E.B. Burwell, Jr., Memorial Award of the Engineering Geology Division, Geological Society of America (for Sieh 1978)

Selected Recent Service

Singapore

- Member, Scientific Advisory Board, CENSAM (February 2013 - 2017)
- Member, Committee on Sustainable Earth, NTU (21 Dec 2009 - 2015)
- Member, International Scientific Advisory Panel (ISAP), Centre for Climate Research Singapore (CCRS) (1 October 2011 - September 2015)
- Member, School Review Committee for Promotion and Tenure (SRCPT) in the Asian School of the Environment (13 February 2015)
- Member, Local Evaluation Panel (LEP) for Singapore NRF Fellowship Award (June 2012– May 2014)

International

- Member, Advisory Panel, Institute of Earth Sciences, Academia Sinica, Taiwan (2000 – 2013)
- Member, Centre for Tropical Environmental & Sustainability Science (TESS) Scientific Advisory Board (2014)

Professional Societies

- American Association for the Advancement of Science (Fellow)
- American Geophysical Union (Fellow)
- Association of Engineering Geologists (Honorary member)
- Geological Society of America (Fellow)
- Seismological Society of America
- National Academy of Sciences

Publications

2020

Tai, Yew Seng, Patrick Daly, E. Edwards Mckinnon, Andrew Parnell, R. Michael Feener, Jedrzej Majewski, Nazli Ismail, and Kerry Sieh. "The impact of Ming and Qing dynasty maritime bans on trade ceramics recovered from coastal settlements in northern Sumatra, Indonesia". *Archaeological Research in Asia* 21 (2020): 100174. <https://doi.org/10.1016/j.ara.2019.100174>

2019

Sieh, K., Herrin, J., Jicha, B., Angel, D.S., Moore, J.D., Banerjee, P., Wiwegwin, W., Sihavong, V., Singer, B., Chualaowanich, T. and Charusiri, P. "Australasian impact crater buried under the Bolaven volcanic field, Southern Laos". *Proceedings of the National Academy of Sciences* (2019). <https://doi.org/10.1073/pnas.1904368116>

Daly, Patrick, Kerry Sieh, Tai Yew Seng, Edmund Edwards McKinnon, Andrew C. Parnell, R. Michael Feener, Nazli Ismail, and Jedrzej Majewski. "Archaeological evidence that a late 14th-century tsunami devastated the coast of northern Sumatra and redirected history." *Proceedings of the National Academy of Sciences* 116, no. 24 (2019): 11679-11686. <https://doi.org/10.1073/pnas.1902241116>. <https://www.pnas.org/content/pnas/116/24/11679.full.pdf>

Bradley, K., Qin, Y., Carton, H., Hananto, N., Villanueva-Robles, F., Leclerc, F., Wei, Shengji., Tapponnier, P., Sieh, K. Stratigraphic control of frontal décollement level and structural vergence and implications for tsunamigenic earthquake hazard in Sumatra, Indonesia. *Geochemistry, Geophysics, Geosystems*, 20 (2019), 1646–1664. <https://doi.org/10.1029/2018GC008025> .

Martin, Stacey Servito, Linlin Li, Emile A. Okal, Julie Morin, Alexander EG Tetteroo, Adam D. Switzer, and Kerry E. Sieh. "Reassessment of the 1907 Sumatra “tsunami earthquake” based on macroseismic, seismological, and tsunami observations, and modeling." *Pure and Applied Geophysics* (2019): 1-38. **176**, 2831–2868 (2019) doi:10.1007/s00024-019-02134-2

Nugroho Hananto, Asmoune Boudarine, Helene Carton, Satish Singh, Praditya Avianto, Yanfang Qin, Dibakar Ghosa , Rina Zuraida, Paul Tapponnier, Christine Deplus, Kerry Sieh, Florent Szitkar, Jérôme Dymont, Sven Petersen, Jörg Bialas, Meike Klischies , Sebastian Graber , Dirk Klaeschen, Isobel Yeo , Bramley Murton. Detachment tectonics at Mid-Atlantic Ridge 26°N. *Scientific Reports*, Nature Publishing Group. 9 (1) (2019), pp.174-186. <https://dx.doi.org/10.1038/s41598-019-47974-z>

2018

Shi, X., Y. Wang, K. Sieh, R. Weldon, L. Feng, C.-H. Chan and J. Liu-Zeng (2018). "Fault Slip and GPS Velocities Across the Shan Plateau Define a Curved Southwestward Crustal Motion Around the Eastern Himalayan Syntaxis." *Journal of Geophysical Research: Solid Earth* **123**(3): 2502-2518;doi:2510.1002/2017JB015206.

Shi, X., R. Weldon, J. Liu-Zeng, Y. Wang, E. Weldon, K. Sieh, Z. Li, J. Zhang, W. Yao and Z. Li (2018). "Limit on slip rate and timing of recent seismic ground-ruptures on the Jinghong fault, SE of the eastern Himalayan syntaxis." *Tectonophysics* **734-735**: 148-166; <https://doi.org/10.1016/j.tecto.2018.1004.1011>.

Xuhua, S., S. Kerry, W. Ray, Z. Chengnan, H. Yuan, Y. Jiwu and R. S. W. (2018). "Slip Rate and Rare Large Prehistoric Earthquakes of the Red River Fault, Southwestern China." *Geochemistry, Geophysics, Geosystems*: doi:10.1029/2017GC007420.

2017

Rubin, C. M., B. P. Horton, K. Sieh, J. E. Pilarczyk, P. Daly, N. Ismail and A. C. Parnell (2017). "Highly variable recurrence of tsunamis in the 7,400 years before the 2004 Indian Ocean tsunami." **8**: 16019; doi: 16010.11038/ncomms16019 <https://www.nature.com/articles/ncomms16019#supplementary-information>.

Shi, X., Y. Wang, J. Liu Zeng, R. Weldon, S. Wei, T. Wang and K. Sieh (2017). "How complex is the 2016 M w 7.8 Kaikoura earthquake, South Island, New Zealand?" *Science Bulletin* **62**(5): 309-311.

Bradley, K. E., L. Feng, E. M. Hill, D. H. Natawidjaja and K. Sieh (2017). "Implications of the diffuse deformation of the Indian Ocean lithosphere for slip partitioning of oblique plate convergence in Sumatra." *Journal of Geophysical Research. Solid Earth* **122**(1): 572-591.

Philibosian, B., K. Sieh, J.-P. Avouac, D. H. Natawidjaja, H.-W. Chiang, C.-C. Wu, C.-C. Shen, M. R. Daryono, H. Perfettini, B. W. Suwargadi, Y. Lu and X. Wang (2017). "Earthquake supercycles on the Mentawai segment of the Sunda megathrust in the seventeenth century and earlier." *Journal of Geophysical Research: Solid Earth* **122**(1): 642-676; doi: 610.1002/2016JB013560.

Singh, S. C., N. Hananto, Y. Qin, F. Leclerc, P. Avianto, P. E. Tapponnier, H. Carton, S. Wei, A. —
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B. Nugroho, W. A. Gemilang, K. Sieh and S. Barbot (2017). "The discovery of a conjugate system of faults in the Wharton Basin intraplate deformation zone." *Science Advances* **3**(1).

2015

Tsang, L. L. H., Meltzner, A. J., Hill, E. M., Freymueller, J. T., and Sieh, K., (2015), A paleogeodetic record of variable interseismic rates and megathrust coupling at Simeulue Island, Sumatra: *Geophysical Research Letters*, v. 42, no. 24, p. 10, doi: 10.1002/2015gl066366.

Gagan, M. K., Sosdian, S. M., Scott-Gagan, H., Sieh, K., Hantoro, W. S., Natawidjaja, D. H., Briggs, R. W., Suwargadi, B. W., and Rifai, H., (2015), Coral C-13/C-12 records of vertical seafloor displacement during megathrust earthquakes west of Sumatra: *Earth and Planetary Science Letters*, v. 432, p. 461-471, doi: 10.1016/j.epsl.2015.1010.1002.

Feng, L., Hill, E. M., Elósegui, P., Qiu, Q., Hermawan, I., Banerjee, P., & Sieh, K. 2015. Hunt for slow slip events along the Sumatran subduction zone in a decade of continuous GPS data. *Journal of Geophysical Research: Solid Earth*, 120(12), 8623–8632. doi:10.1002/2015JB012503

Tsang, L. L. H., Meltzner, A. J., Philiposian, B., Hill, E. M., Freymueller, J. T., and Sieh, K., 2015, A 15 year slow-slip event on the Sunda megathrust offshore Sumatra: *Geophysical Research Letters*, v. 42, no. 16, p. 6630-6638; doi: 10.1002/2015gl064928.

Meltzner, A. J., Sieh, K., Chiang, H. W., Wu, C. C., Tsang, L. L. H., Shen, C. C., Hill, E. M., Suwargadi, B. W., Natawidjaja, D. H., Philiposian, B., and Briggs, R. W., 2015, Time-varying interseismic strain rates and similar seismic ruptures on the Nias-Simeulue patch of the Sunda megathrust: *Quaternary Science Reviews*, v. 122, p. 258-281; doi: 10.1016/j.quascirev.2015.1006.1003.

Feng, L., Hill, E. M., Banerjee, P., Hermawan, I., Tsang, L. L. H., Natawidjaja, D. H., Suwargadi, B. W., and Sieh, K., 2015, A unified GPS-based earthquake catalog for the Sumatran plate boundary between 2002 and 2013: *Journal of Geophysical Research: Solid Earth*, v. 120, no. 5, p. 3566-3598, doi: 10.1002/2014JB011661.

Hill, E. M., Yue, H., Barbot, S., Lay, T., Tapponnier, P., Hermawan, I., Hubbard, J., Banerjee, P., Feng, L., Natawidjaja, D., and Sieh, K., (2015), The 2012 M(w)8.6 Wharton Basin sequence: A cascade of great earthquakes generated by near-orthogonal, young, oceanic mantle faults: *Journal of Geophysical Research-Solid Earth*, v. 120, no. 5, p. 3723-3747; doi: 10.1002/2014jb011703.

Yue, H., Lay, T., Li, L. Y., Yamazaki, Y., Cheung, K. F., Rivera, L., Hill, E. M., Sieh, K., Kongko, W., and Muhari, A., (2015), Validation of linearity assumptions for using tsunami waveforms in joint inversion of kinematic rupture models: Application to the 2010 Mentawai M-w 7.8 tsunami earthquake: *Journal of Geophysical Research-Solid Earth*, v. 120, no. 3, p. 1728-1747; doi: 10.1002/2014jb011721.

Sieh, K., Daly, P., McKinnon, E. E., Pilarczyk, J. E., Chiang, H.-W., Horton, B., Rubin, C. M., Shen, C.-C., Ismail, N., Vane, C. H., and Feener, R. M., (2015), Penultimate predecessors of the 2004 Indian Ocean tsunami in Aceh, Sumatra: Stratigraphic, archeological, and historical evidence: *Journal of Geophysical Research: Solid Earth*, p. <http://dx.doi.org/10.1002/2014JB011538>.

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Tun, S. T., Wang, Y., Khaing, S. N., Thant, M., Htay, N., Htwe, Y. M. M., & Sieh, K. (2014).

Surface ruptures of the Mw 6.8 March 2011 Tarlay earthquake, eastern Myanmar. *Bulletin of the Seismological Society of America*, 104(6), 2915-2932.

Fujino, S., K. Sieh, A. J. Meltzner, E. Yulianto and H.-W. Chiang (2014). "Ambiguous correlation of precisely dated coral detritus with the tsunamis of 1861 and 1907 at Simeulue Island, Aceh Province, Indonesia." *Marine Geology* 357(0): 384-391, doi: <http://dx.doi.org/310.1016/j.margeo.2014.1009.1047>.

Philibosian, B., K. Sieh, J.-P. Avouac, D. H. Natawidjaja, H.-W. Chiang, C.-C. Wu, H. Perfettini, C.-C. Shen, M. R. Daryono and B. W. Suwargadi (2014). "Rupture and variable coupling behavior of the Mentawai segment of the Sunda megathrust during the supercycle culmination of 1797 to 1833. *Journal of Geophysical Research: Solid Earth* 119(9): 2014JB011200, doi: 10.1002/2014jb011200

Yue, H., Lay, T., Rivera, L., Bai, Y., Yamazaki, Y., Cheung, K. F., Hill, E. M., Sieh, K., Kongko, W., and Muhari, A. (2014). Rupture process of the 2010 Mw 7.8 Mentawai tsunami earthquake from joint inversion of near-field hr-GPS and teleseismic body wave recordings constrained by tsunami observations. *Journal of Geophysical Research: Solid Earth* 2014JB011082, doi: 10.1002/2014jb011082.

Wang, Y., Sieh, K., Tun, S. T., Lai, K.-Y., and Myint, T. (2014). Active tectonics and earthquake potential of the Myanmar region. *Journal of Geophysical Research: Solid Earth* 119, 2013JB010762, doi: 10.1002/2013jb010762.

Bursik, M., Sieh, K., and Meltzner, A. (2014). Deposits of the most recent eruption in the Southern Mono Craters, California: Description, interpretation and implications for regional marker tephra. *Journal of Volcanology and Geothermal Research* 275, 114-131, <http://dx.doi.org/10.1016/j.jvolgeores.2014.02.015>.

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Wang, Y., Shyu, J. B. H., Sieh, K., Chiang, H.-W., Wang, C.-C., Aung, T., Lin, Y.-n. N., Shen, C.-C., Min, S., Than, O., Lin, K. K., and Tun, S. T. (2013). Permanent upper plate deformation in western Myanmar during the great 1762 earthquake: Implications for neotectonic behavior of the northern Sunda megathrust. *Journal of Geophysical Research: Solid Earth* 118, 1277-1303, doi: 10.1002/jgrb.50121

2012

Daryono, M. R., Natawidjaja, D. H., and Sieh, K. (2012) Twin-Surface Ruptures of the March 2007 M > 6 Earthquake Doublet on the Sumatran Fault: *Bulletin of the Seismological Society of America*, v. 102, p. 2356-2367.

Wiseman, K., Banerjee, P., Burgmann, R., Sieh, K., Dreger, D. S., and Hermawan, I. (2012) Source model of the 2009 Mw 7.6 Padang intraslab earthquake and its effect on the Sunda

megathrust. *Geophysical Journal International* 190, 1710-1722.

Chuang, R. Y., Miller, M. M., Chen, Y. G., Chen, H. Y., Shyu, J. B. H., Yu, S. B., Rubin, C. M., Sieh, K., and Chung, L. H. (2012). Interseismic Deformation and Earthquake Hazard along the Southernmost Longitudinal Valley Fault, Eastern Taiwan. *Bulletin of the Seismological Society of America* 102, 1569-1582.

Hill, E. M., Borrero, J. C., Huang, Z., Qiu, Q., Banerjee, P., Natawidjaja, D. H., Elosegui, P., Fritz, H. M., Suwargadi, B. W., Pranantyo, I. R., Li, L., Macpherson, K. A., Skanavis, V., Synolakis, C. E., and Sieh, K. (2012) The 2010 Mw 7.8 Mentawai earthquake: Very shallow source of a rare tsunami earthquake determined from tsunami field survey and near-field GPS data. *J. Geophys. Res.* 117, B06402. [10.1029/2012JB009159](https://doi.org/10.1029/2012JB009159)

Philibosian, B., Sieh, K., Natawidjaja, D. H., Chiang, H.-W., Shen, C.-C., Suwargadi, B. W., Hill, E. M., and Edwards, R. L. (2012) An ancient shallow slip event on the Mentawai segment of the Sunda megathrust, Sumatra. *J. Geophys. Res.* 117, B05401.

Meltzner, A. J., Sieh, K., Chiang, H.-W., Shen, C.-C., Suwargadi, B. W., Natawidjaja, D. H., Philibosian, B., and Briggs, R. W. (2012). Persistent termini of 2004- and 2005-like ruptures of the Sunda megathrust. *J. Geophys. Res.* 117, B04405, DOI: 10.1029/2011JB008888

Li, L. L., Huang, Z. H., Qiu, Q., Natawidjaja, D. H., and Sieh, K. (2012) Tsunami-induced coastal change: scenario studies for Painan, West Sumatra, Indonesia: *Earth Planets and Space*, v. 64, p. 799-816.

2011

Wiseman, K., Banerjee, P., Sieh, K., Bürgmann, R., and Natawidjaja, D. H. (2011) Another potential source of destructive earthquakes and tsunami offshore of Sumatra. *Geophys. Res. Lett.* 38, L10311

Wang, Y., Sieh, K., Aung, T., Min, S., Khaing, S. N., and Tun, S. T. (2011). Earthquakes and slip rate of the southern Sagaing fault: insights from an offset ancient fort wall, lower Burma (Myanmar). *Geophysical Journal International* 185, 49-64, 10.1111/j.1365-246X.2010.04918.x.

2010

Yu-nung Nina Lin, Kerry Sieh, and Joann Stock, (2010) "Submarine landslides along the Malacca Strait-Mergui Basin shelf". *J. Geophys. Res.*, Vol.115, Issue B12102, 5, [10.1029/2009JB007050](https://doi.org/10.1029/2009JB007050)

Meltzner, A. J., K. Sieh, H.-W. Chiang, C.-C. Shen, B. W. Suwargadi, D. H. Natawidjaja, B. E. Philibosian, R. W. Briggs, and J. Galetzka, (2010) "Coral evidence for earthquake recurrence and an A.D. 1390–1455 cluster at the south end of the 2004 Aceh–Andaman rupture". *J. Geophys. Res.*, Vol. 115, B10402, [10.1029/2010JB007499](https://doi.org/10.1029/2010JB007499)

2009

Mériaux, A.-S., Sieh, K., Finkel, R. C., Rubin, C. M., Taylor, M. H., Meltzner, A. J., and Ryerson, F. J., (2009) "Kinematic behavior of southern Alaska constrained by westward decreasing postglacial slip rates on the Denali Fault, Alaska". *J. Geophys. Res.*, Vol.114, B03404. [10.1029/2007JB005053](https://doi.org/10.1029/2007JB005053)

Megawati, K., Shaw, F., Sieh, K., Huang, Z., Wu, T.-R., Lin, Y., Tan, S. K., and Pan, T.-C., (2009) "Tsunami hazard from the subduction megathrust of the South China Sea: Part I. Source characterization and the resulting tsunami". *J. Asian Earth Sciences*, Vol.36, p.13-20. [doi:10.1016/j.jseaes.2008.11.012](https://doi.org/10.1016/j.jseaes.2008.11.012)

2008

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Briggs, R. W., Sieh, K., Amidon, W. H., Galetzka, J., Prayudi, D., Suprihanto, I., and Farr, T. G., (2008) "Persistent elastic behavior above a megathrust rupture patch: Nias island, West Sumatra". *J. Geophys. Res.*, Vol.113, p.B12406. [doi:10.1029/2008JB005684](https://doi.org/10.1029/2008JB005684)

Konca, A. O., Avouac, J.-P., Sladen, A., Meltzner, A. J., Sieh, K., Fang, P., and Helmberger, D. V., (2008) "Partial rupture of a locked patch of the Sumatra megathrust during the 2007 earthquake sequence". *Nature*, Vol.456, p.631-635. [10.1038/nature07572](https://doi.org/10.1038/nature07572)

Sieh, K., Natawidjaja, D. H., Meltzner, A. J., Shen, C.-C., Cheng, H., Li, K.-S., and Edwards, R. L., (2008) "Earthquake Supercycles Inferred from Sea-Level Changes Recorded in the Corals of West Sumatra". *Science*, Vol.322, p.1674-1678. [10.1126/science.1163589](https://doi.org/10.1126/science.1163589)

Taylor, M. H., Leprince, S., Avouac, J.-P., and Sieh, K., (2008) "Detecting co-seismic displacements in glaciated regions: An example from the great November 2002 Denali earthquake using SPOT horizontal offsets". *Earth and Planetary Science Letters*, Vol.270,, p.209-220.

Chlieh M., Avouac, J. -P., Sieh, K., Natawidjaja, D.H., and Galetzka, J., (2008) "Heterogeneous coupling of the Sumatran megathrust constrained by geodetic and paleogeodetic measurements". *J. Geophys. Res.*, Vol.113, p.B05305. [doi:10.1029/2007JB004981](https://doi.org/10.1029/2007JB004981)

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Bilek, S.L., Satake, K., and Sieh, K., (2007) "Introduction to the Special Issue on the 2004 Sumatra-Andaman Earthquake and the Indian Ocean Tsunami". *Bull. Seismol. Soc. America*, Vol.97, Issue 1A, p.S1-S5. [doi:10.1785/0120050633](https://doi.org/10.1785/0120050633)

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McClosky, J., Antonioli, A., Piatanesi, A., Sieh, K., Steacy, S., Nalbant, S., Cocco, M., Giunchi, C., Huang, J.D., Dunlop, P., (2007) "Near-field propagation of tsunamis from megathrust earthquakes". *Geophys. Res. Lett.*, Vol.34, p.14316. [doi:10.1029/2007GL030494](https://doi.org/10.1029/2007GL030494)

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Sieh, K., (2007) "The Sunda megathrust - Past, present and future". *Journal of Earthquake and Tsunami*, Vol.1, p.1-19.

2006

Meltzner, A.J., K. Sieh, M. Abrams, D.C. Agnew, K.W. Hudnut, J.-P. Avouac, and D.H. Natawidjaja, (2006) "Uplift and subsidence associated with the great Aceh-Andaman earthquake of 2004". *J. Geophys. Res.*, Vol.111, p.B02407. [doi:10.1029/2005JB003891](https://doi.org/10.1029/2005JB003891)

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