

# Curriculum Vitae

## Ya-Ju Hsu

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### Education

- 2004 Ph.D., Institute of Geophysics, National Central University, Taiwan
- 1999 M.S., Institute of Applied Geology, National Central University, Taiwan
- 1997 B.S., Department of Earth Sciences, National Central University, Taiwan

### Academic and Research Career

- 2015/09-present Research fellow, Institute of Earth Sciences, Academia Sinica, Taiwan
- 2010/10-2015/08 Associate research fellow, Institute of Earth Sciences, Academia Sinica, Taiwan
- 2006/08-2010/10 Assistant research fellow, Institute of Earth Sciences, Academia Sinica, Taiwan
- 2004/09-2006/08 Post-doctoral fellow, Seismological Laboratory, California Institute of Technology, USA.
- 2004/07-2004/09 Post-doctoral fellow, Institute of Earth Sciences, Academia Sinica, Taiwan,
- 1999/07-2000/08 Research assistant, Institute of Earth Sciences, Academia Sinica, Taiwan

### Honors and Awards

- Outstanding Research Award, Ministry of Science and Technology, ROC, 2021
- Grand Challenge Program, Academia Sinica, 2021
- Han-Zhuo Wang Medal Award, Geological Society of China, 2017
- Promising Women in Science Award, Wu Chieh Shiung Education Foundation, 2017
- Career Development Award, Academia Sinica, 2016
- Ta-You Wu Memorial Award, National Science Council (NSC-Taiwan), 2012
- Academia Sinica Research Award for Junior Research Investigators, 2010

### Professional Memberships

- Geophysical Society of China
- Geological Society of China
- American Geophysical Union

## Professional Services

- (1) Associate Editor, Geological Society of America Bulletin (2016-2020)
- (2) Member, The Committee for IAG/IUGG, Taipei 2016-
- (3) Steering committee of sub-commission 3.2 for Crustal Deformation, IAG/IUGG (2015-2019)
- (4) 2016 AOGS meeting (July 31 - August 5, Beijing, China), Session convener, SE13: Geodetic observations, modeling of earthquake cycle deformation, and tectonics
- (5) 2013 Taiwan Geosciences Assembly (May 13-17, Taoyuan, Taiwan), Chair of Geodesy
- (6) 2011 AOGS meeting (August 8-12, Taipei, Taiwan), Session convener, SE92: Geodetic observations and modeling of earthquake cycle deformation.
- (7) 2011 AGU meeting (December 5-9, San Francisco, USA), Session convener, T34: Mechanics of the lithospheric deformation during the earthquake cycle.
- (8) Program committee member, 2010 Western Pacific Geophysics Meeting, Taipei, Taiwan

## Research Interests

Earthquake cycle deformation, GNSS geodesy, fault mechanics, rheology, subduction zone deformation, seafloor geodesy, earthquake triggering

## Publications

### Refereed Papers

1. Chen, H.Y, Y. J. Hsu, R. Ikuta, H. Tung, C. S. Ku, H. H. Su, C. H. Tang, M. Ando and T. Tsujii (2021), Plate coupling at westernmost Ryukyu Trench revealed by GNSS and GNSS/Acoustic seafloor data (in prep.)
2. Jiang, Z. S. **Y. J. Hsu**, D. F. Huang, L. G. Yuan, X.C. Yang, Y. H. Ding, and C. F. Chen (2021), Estimation of daily hydrological mass changes using continuous GNSS measurements in mainland China, *J. Hydrol*, 598, doi:10.1016/j.jhydrol2021.126349.
3. **Hsu, Y. J.**\*, H. Kao, R. Bürgmann, Y. T. Lee, H. H. Huang, Y. F. Hsu, Y. M. Wu, and J. Zhuang (2021), Synchronized and asynchronous modulation of seismicity by hydrological loading: A case study in Taiwan, *Sci. Adv.* 16, eabf7282, doi:10.1126/sciadv.abf7282.
4. Chen, H., Y. R. Ikuta, **Y. J. Hsu**, T. Tsujii, M. Ando, Y. Tu, T. Kohmi, K. Takemoto, K. Mizuno, H. Tung, C. S. Ku, and C. H. Lin (2021), A decade of GNSS/Acoustic measurements on the back-arc spreading in the southwestern end of the Okinawa Trough, *Front. Earth Sci.*, 10, doi: 10.3389/feart2021.601138.
5. Jiang, Z. S. **Y. J. Hsu**, L. G. Yuan, and D. F. Huang (2021), Monitoring time-varying continental water storage changes using daily GNSS measurements in Yunnan, southwest China, *Remote Sen. Enviro.*, 254, doi:10.1016/j.rse.2020.112249

6. Hsu, Y. J.\*, Y. Fu, R. Bürgmann, S. Y. Hsu, C. C. Lin, C. H. Tang, and Y. M. Wu (2020), Assessing seasonal and interannual water storage variations in Taiwan using geodetic and hydrological data, *Earth Planet. Sci. Lett.*, 550, doi: 10.1016/j.epsl.2020.116532
7. Tang, C.-H., S. Barbot, **Y. J. Hsu**, and Y. M. Wu, (2020), Heterogeneous power-law flow in the Salton Trough inferred from postseismic relaxation following the 2010 El Mayor-Cucapah earthquake, *J. Geophys. Res.*, 125, doi: 10.1002/2020JB019740.
8. Li. S.S., S. Wdowinski, **Y. J. Hsu**, and J. B. H. Shyu, (2020), Earthquake Interactions in Central Taiwan: Probing Coulomb stress effects due to  $M_L \geq 5.5$  earthquakes from 1900 to 2017, *J. Geophys. Res.* 550, doi: 10.1002/2019JB019010.
9. Pu, H. C., C. H. Lin, **Y. J. Hsu**, Y. C. Lai, M. H. Shih, M. Murase, and L. C. Chang (2019), Volcano-hydrothermal inflation revealed through spatial variation in stress field in Tatun Volcano Group, Northern Taiwan, *J. Volcanol. Geotherm. Res.* 390, 106712. doi: 10.1016/j.jvolgeores.2019.106712.
10. Qiu, Q., L.L. Li, **Y. J. Hsu**, Y. Wang, C. H. Chan, and A. D. Switzer (2019), Revised earthquake sources along Manila Trench for tsunami hazard assessment in the South China Sea, *Nat. Hazards Earth Syst. Sci.*, 19, 1565–1583.
11. Tung, H, H. Y. Chen, **Y. J. Hsu**, J. C. Hu, Y. H. Chang, and Y. T. Kuo, Triggered slip on multifaults after the 2018 Mw 6.4 Hualien earthquake by continuous GPS and InSAR measurements, *Terr. Amos. Oceanic Sci.*, doi:10.3319/TAO.2019.04.03.01
12. Tang, C.-H., **Y. J. Hsu**, S. Barbot, J. D. P. Moore, W.-L. Chang (2019), Lower-crustal rheology and thermal gradient in the Taiwan orogenic belt illuminated by the 1999 Chi-Chi earthquake, *Sci. Adv.*, 5, eaav3287.
13. Canitano, A., H. Gonzalez-Huizar, **Y. J. Hsu**, H. M. Lee, A. T. Linde and S. Sacks (2019), Testing the influence of static and dynamic stress perturbations on the occurrence of a shallow, slow slip event in eastern Taiwan, *J. Geophys. Res.*, 124, doi:10.1029/2018JB016742.
14. Chen, H. Y.\*, H. Tung, **Y. J. Hsu**, H. K. Lee, (2019), Evaluation of single-frequency receivers for studying crustal deformation at the Longitudinal Valley fault, eastern Taiwan, *Surv. Rev.*, doi: 10.1080/00396265.2019.1634340.
15. **Hsu, Y. J.**\*, Y. R. Lai, R. J. You, H. Y. Chen, L. S. Teng, Y. C. Tsai, C. H. Tang, and H. H. Su (2018), Detecting rock uplift across southern Taiwan mountain belt by integrated GPS and leveling data, *Tectonophysics*, doi:10.1016/j.tecto.2018.07.012.
16. Canitano, A., M. Godano, **Y. J. Hsu**, H. M. Lee, A. T. Linde, and S. I. Sacks (2018), Seismicity controlled by a frictional afterslip during a small magnitude seismic sequence ( $M_L < 5$ ) on the Chihshang Fault, Taiwan, *J. Geophys. Res.* doi: 10.1002/2017JB015128
17. Chen, H., Y. R. Ikuta, C. H. Lin, **Y. J. Hsu**, T. Kohmi, C. C. Wang, S. B. Yu, Y. Tu, T. Tsujii and M. Ando, (2018), Back-Arc opening in the western end of the Okinawa Trough revealed from GNSS/Acoustic measurements, *Geophys. Res. Lett.*, 45, 137-145, doi: 10.1002/2017GL075724.
18. Mouyen, N., A. Canitano, B. F. Chao, **Y. J. Hsu**, P. Steer, L. Longuevergne, and J. P. Boy, (2017), Typhoon-induced ground deformation, *Geophys. Res. Lett.*, 44, 11004-11011, doi: 10.1002/2017GL075615.

19. Canitano, A., Y. J. Hsu, H. M. Lee, A. T. Linde, and S. I. Sacks (2017), Calibration for the shear strain of 3-component borehole strainmeter in eastern Taiwan through Earth and ocean tidal waveform modeling, *J. Geodesy*, doi:10.1007/s00190-017-1056-4.
20. Chao, K., Z. G. Peng, **Y. J. Hsu**, K. Obara, C. Wu, K. E. Ching, S. Lee, H. C. Pu, P. L. Leu, and A. Wech (2017), Temporal variation of tectonic tremor activity in southern Taiwan around the 2010  $M_L$ 6.4 Jiashian earthquake, *J. Geophys. Res.*, *122*, 5417-5434, doi:10.1002/2016JB013925.
21. Wu, W. N., Y. T. Yen, **Y. J. Hsu**, and W. M. Wu (2017), Spatial variation of seismogenic depths of crustal earthquakes in the Taiwan region: implications for seismic hazard assessment. *Tectonophysics*, *20*, 81-95, doi:10.1016/j.tecto.2017.04.028
22. Chen, K. S., Y. M. Wu, **Y. J. Hsu** and Y. C. Chan (2017), Current crustal deformation of the Taiwan orogen reassessed by cGPS strain-rate estimation and focal mechanism stress inversion", *Geophys. J. Int.*, *210*, 228-23, doi:10.1093/gji/ggx165.
23. Moore D. P. J., H. Yu, C. H. Tang, T. Wang, S. Barbot, D. Peng, S. Masuti, J. Dauwels, **Y. J. Hsu**, V. Lambert, P. Nanjundiah, S. Wei, E. Lindsey, L. J. Feng and B. Shibasaki (2017), Imaging the distribution of transient viscosity following the 2016 Mw 7.1 Kumamoto earthquake, *Science*, *356*(6334), 163-167, doi: 10.1126/science.aal3422.
24. **Hsu, Y. J.**\*, S. B. Yu, J. Loveless, T. Bacolcol, R. Solidum, A. Luis Jr, A. Pelicano, and J. Woessner. (2016), Interseismic deformation and moment deficit along the Manila subduction zone and the Philippine fault system, *J. Geophys. Res.*, *121*, 7639–7665, doi:10.1002/2016JB013082
25. Kuo, Y. T., C. S. Ku, Y. G. Chen, Y. Wang, Y. N. N. Lin, Y. R. Chuang, **Y. J. Hsu**, F. W. Taylor, B. S. Huang, H. Tung (2016), Characteristics on fault coupling along the Solomon megathrust based on GPS observations from 2011 to 2014, *Geophys. Res. Lett.*, *43*, doi: 10.1002/2016GL070188. (2016/08)
26. Canitano, A., **Y. J. Hsu**, H. M. Lee, A. T. Linde, and S. I. Sacks (2016), A first modeling of dynamic and static crustal strain field from near-field dilatation measurements: example of the 2013 Mw 6.2 Ruisui earthquake, Taiwan, *J. Geodesy*. *91*, 1-8, doi:10.1007/s00190-016-0933-6 (2016/04)
27. Chiang, P. J., **Y. J. Hsu**\*, W. L. Chang, (2016) Fault modeling of the 2012 Wutai, Taiwan earthquake and its tectonic implications, *Tectonophysics*. *666*, 66-75, doi: 10.1016/j.tecto.2015.10.15. (2016/1)
28. Canitano, A., **Y. J. Hsu**, H. M. Lee, A. T. Linde, and S. I. Sacks (2015), Near-field strain observations of the October 2013 Ruisui, Taiwan earthquake: source parameters and limits of very-short term strain detection, *Earth Planets Space*, doi 10.1186/s40623-40015-40284-40621.
29. **Hsu, Y. J.**\*, Y. S. Chang, C. C. Liu, H. M. Lee, A. T. Linde, S. I. Sacks, G. Kitagawa, and Y. G. Chen (2015), Revisiting borehole strain, typhoons, and slow earthquakes using quantitative estimates of precipitation induced strain changes, *J. Geophys. Res.*, *120*, doi: 10.1002/2014JB011807.
30. **Hsu, Y. J.**\*, R. F. Chen, C. W., Lin, H. Y. Chen, and S. B. Yu (2014), Seasonal, long-term, and short-term deformation in the Central Range of Taiwan induced by landslides, *Geology*, *42*, 991-994, doi:10.1130/G35991.1

31. Chen, R. F., **Y. J. Hsu**, S. B. Yu, K. J. Chen, R.Y. Wu, Y. C. Hsieh, and C. W. Lin (2014), Real-Time monitoring of deep-seated gravitational slope deformation in the Taiwan mountain belt (2014), belt, in Lollino, G., et al., eds., *Engineering Geology for Society and Territory: Volume 6, Applied Geology for Major Engineering Projects: Springer International Publishing*, 1084 p. (EI)
32. Chen, H. Y., J. C. Lee, H. Tung, S. B. Yu, **Y. J. Hsu** and H. Lee (2013), A new velocity field from a dense GPS array in the southernmost Longitudinal Valley, southeastern Taiwan, *Terr. Amos. Oceanic Sci.*, *24*, 837-862, doi:10.3319/TAO.2013.06.18.01.
33. Yu, S. B., **Y. J. Hsu**, T. Bacolcol, C. C. Yang, Y. C. Tsai, and R. Solidum (2013) Present-day crustal deformation along the Philippine Fault in Luzon, Philippines, *J. Asian Earth Sci.*, *65*, 64-74.
34. Lee, S. J., W. T. Liang, L. Mozziconacci, **Y. J. Hsu**, C. Y. Lu, W. G. Huang and B. S. Huang (2013), Source complexity of the 4 March 2010 Jiashian, Taiwan, earthquake determined by joint inversion of teleseismic and near field data, *J. Asian Earth Sci.*, *64*, 14-26.
35. Rousset B., S. Barbot, J. P. Avouac, and **Y. J. Hsu** (2012), Postseismic deformation following the 1999 Chi-Chi earthquake, Taiwan: Implication for lower-crust rheology, *J. Geophys. Res.*, doi:10.1029/2012JB009571.
36. **Hsu, Y. J.\***, M. Ando, S. B. Yu, and M. Simons (2012). The potential for a very large earthquake along the southernmost Ryukyu subduction zone, *Geophys. Res. Lett.*, *39*, doi:10.1029/2012GL052764.
37. Tsai, M. C., S. B. Yu, **Y. J. Hsu**, H.Y. Chen, and H. W. Chen (2012). Interseismic crustal deformation of frontal thrust fault system in the Chiayi-Tainan area, Taiwan, *Tectonophysics*, *554*, 169-184, doi:10.1016/j.tecto.2012.05.014.
38. Chen, H. Y., J. C. Lee, H. Tung, S. B. Yu, **Y. J. Hsu** and H. Lee (2012), Determination of vertical velocity field of southernmost Longitudinal Valley in eastern Taiwan: A joint analysis of leveling and GPS measurements, *Terr. Amos. Oceanic Sci.*, *23*, 355-376, doi:10.3319/TAO.2012.02.29.01.
39. Chan, C. H., **Y. J. Hsu**, and Y. M. Wu (2012), Possible stress states adjacent to the rupture zone of the 1999 Chi-Chi, Taiwan, earthquake, *Tectonophysics*, *541*, 81-88.
40. **Hsu, Y. J.\***, S.B. Yu, T. R.A. Song, and T. Bacolcol (2012), Plate coupling along the Manila subduction zone between Taiwan and northern Luzon, *J. Asian Earth Sci.* *51*, 98-108, doi:10.1016/j.jseaes.2012.01.005.
41. **Hsu, Y. J.\***, M. Simons, C. A. Williams, and E. Casarotti (2011) Three-dimensional FEM derived elastic Green's functions for the coseismic deformation of the 2005 Mw 8.7 Nias-Simeulue, Sumatra earthquake, *Geochem. Geophys. Geosyst.*, *12*, Q07013, doi:10.1029/2011GC003553.
42. **Hsu, Y. J.\***, S. B. Yu, L. C. Kuo, Y. C. Tsai, and H. Y. Chen (2011) Coseismic deformation of the 2010 Jiashian, Taiwan earthquake and implications for fault activities in southwestern Taiwan, *Tectonophysics*, *502*, 328-335.
43. Wan, Y.G., S. Z. Sheng, **Y. J. Hsu**, and Y. M. Wu, (2011) Effect of stress ratio and friction coefficient on composite P wave radiation patterns, *Chin. J. Geophys.*, *54*, 994-1001.

44. Wu, Y. M., **Y. J. Hsu**, C. H. Chang, L. S. Teng, and M. Nakamura (2010) Temporal and spatial variation of stress field in Taiwan from 1991 to 2007: Insights from comprehensive first motion focal mechanism catalog, *Earth Planet. Sci. Lett.*, 298, 306-316.
45. Chen, C. H., C. H. Wang, **Y. J. Hsu**, S. B. Yu, and L. C. Kuo (2010) Correlation between groundwater level and altitude variations in land subsidence area of the Choshuichi Alluvial Fan, Taiwan, *Engineering Geology*, 115, 122-131, doi:10.1016/j.enggeo.2010.05.011.
46. **Hsu, Y. J.\***, L. Rivera, Y. M. Wu, C. H. Chang, and H. Kanamori (2010) Spatial heterogeneity of tectonic stress and friction in the crust: new evidence from earthquake focal mechanisms in Taiwan, *Geophys. J. Int.* 182, 329-342.
47. **Hsu, Y. J.\***, S. B. Yu, M. Simons, L. C. Kuo, and H. Y. Chen (2009) Interseismic crustal deformation in the Taiwan plate boundary zone revealed by GPS observations, seismicity, and earthquake focal mechanisms, *Tectonophysics*, 479, 4-18.
48. **Hsu Y. J.\***, J. P. Avouac, S. B. Yu, C. H. Chang, Y. M. Wu, and J. Woessner (2009), Spatio-temporal slip, and stress level on the faults within the western foothills of Taiwan: implications for fault frictional properties, *Pure Appl. Geophys.*, 166, 1853-1884.
49. Chen, H. Y. , **Y. J. Hsu**, J .C. Lee, S. B. Yu, L. C. Kuo, C. C. Liu and C. S. Tsai (2009) Coseismic displacements and slip Distribution inferred from GPS and leveling observations for the 2006 Peinan Earthquake (Mw 6.1) in southeastern Taiwan, *Earth Planets Space*, 61, 299–318, 2009.
50. **Hsu, Y. J.\***, S. B. Yu, and H. Y. Chen (2009) Coseismic and postseismic deformation associated with the 2003 Chengkung, Taiwan earthquake. *Geophys. J. Int.* 176, 420-430.
51. Wu, Y. M., L. Zhao, C. H. Chang, and **Y. J. Hsu** (2008) Focal-mechanism determination in Taiwan by genetic algorithm, *Bull. Seismol. Soc. Am.*, 98, 651-661.
52. **Hsu, Y. J.\***, P. Segall, S. B. Yu, L. C. Kuo, and C. A. Williams (2007) Temporal and spatial variations of postseismic deformation following the 1999 Chi-Chi, Taiwan earthquake, *Geophys. J. Int.*, 169, 367-379.
53. **Hsu, Y. J.\***, M. Simons, J.-P. Avouac, J. Galetzka, K. Sieh, M. Chlieh, D. Natawidjaja, L. Prawirodirdjo and Y. Bock (2006) Frictional afterslip following the Mw 8.7, 2005 Nias-Simeulue earthquake, Sumatra, *Science*, 312, 1921-1926.
54. Briggs, R. W., K. Sieh, A. J., Meltzner, D. Natawidjaja, J. Galetzka, B. Suwargadi , **Y. J. Hsu**, M. Simons, N. Hananto, I. Suprihanto, D. Prayudi, J.-P. Avouac, L. Prawirodirdjo, and Y. Bock (2006) Deformation and slip along the Sunda megathrust in the great 2005 Nias-Simeulue earthquake, *Science*, 311, 1897-1901.

55. Yu, S. B., Y. J. Hsu, L. C. Kuo, H. Y. Chen, and C. C. Liu (2003) GPS measurement of postseismic deformation following the 1999 Chi-Chi, Taiwan, earthquake, *J. Geophys. Res.*, *108*, 10.1029/2003JB002396, 2003.
56. Hsu, Y. J.\*, M. Simons, S. B. Yu, L. C. Kuo, and H. Y. Chen, (2003) A two-dimensional dislocation model for interseismic deformation of the Taiwan mountain belt, *Earth Planet. Sci. Lett.*, *211*, 287-294.
57. Hsu, Y. J.\*, N. Bechor, P. Segall, S. B. Yu, L. C. Kuo, and K. F. Ma (2002) Rapid afterslip following the 1999 Chi-Chi, Taiwan, earthquake, *Geophys. Res. Lett.* *29*, 10.1029/2002GL014967.
58. Kuo, L. C., S. B. Yu, Y. J. Hsu, C. S. Hou, Y. H. Lee, C. S. Tsai, and C. S. Chen (2002). Impact of a large earthquake on a GPS network: The case of the 1999 Chi-Chi, Taiwan, earthquake, *Survey Review*, *36*, 423-431.
59. Yu, S. B., L. C. Kuo, Y. J. Hsu, H. H. Su, C. C. Liu, C. S. Hou, J. F. Lee, T. C. Lai, C. C. Liu, C. L. Liu, T. F. Tseng, C. S. Tsai, and T. C. Shin (2001) Preseismic deformation and coseismic displacements associated with the 1999 Chi-Chi, Taiwan earthquake, *Bull. Seism. Soc. Am.* *91*, 995-1012.
60. Johnson, K. M., Y. J. Hsu, P. Segall, and S. B. Yu (2001) Fault geometry and slip distribution of the 1999 Chi-Chi, Taiwan earthquake imaged from inversion of GPS data, *Geophys. Res. Lett.*, *28*, 2285-2288.

### Conference Abstracts

1. Hsu, Y. J. (2021), Science and hazard mitigation with seafloor geodesy in Taiwan, SZ4D international webinar, <https://www.sz4d.org/past>, Mar. 25, **(Invited speaker)**
2. Hsu, Y. J. (2020), Enhanced seismic activity during reduced annual hydrological loading in Taiwan, Geoscience 2020, Nov. 17-18, Taipei, Taiwan **(keynote speaker)**
3. Hsu, Y. J., Y. T. Li, H. Kao, R. Bürgmann, and Y. M. W (2019), Enhancing seismic hazard with declining annual water load in southwest Taiwan, AGU Fall Meeting, Dec. 9-13, San Francisco, USA. **(Invited)**
4. Hsu, Y. J., H. Y. Chen, S. K. Hsu, and S. Jan (2019), Probing fault slip behaviors along the southern Ryukyu and Manila subduction zones using seafloor geodesy, 8th France-Taiwan symposium in earth sciences, Oct. 21-22, Pau, France.

5. Hsu, Y. J., H. Y Chen, S. K. Hsu, and S. Jan (2019), Probing fault slip behaviors of the Ryukyu and Manila subduction zones using seafloor geodesy, International workshop on western Pacific Marginal Sea Geodynamics, Jul, 29-30, Shanghai, China (**Invited speaker**)
6. Hsu, Y. J., H. Y Chen, S. K. Hsu, and S. Jan (2019), Probing fault slip behaviors of the Ryukyu and Manila subduction zones using seafloor geodesy, 6th Philippines-Taiwan earth sciences international conferences, May 20-22, Clark, Pampanga, Philippines.
7. Hsu, Y. J., Probing stress field on the Chihshang fault, Taiwan using geodetic and seismic data (2018), AOGS meeting, June 3 – June 8, Hawaii, USA (**Invited speaker**)
8. Hsu, Y. J., S. B. Yu, J. Loveless, T. Bacolcol, R. Solidum, A. Luis Jr, A. Pelicano, and J. Woessner (2017), Fault coupling and moment deficit along the Manila subduction zone, The 9<sup>th</sup> South China Sea Tsunami workshop, Oct. 23-24, Qingdao, China (**Invited speaker**).
9. Hsu, Y. J., R. F. Chen, C. W., Lin, H. Y. Chen, and S. B. Yu (2016), Seasonal, long-term, and short-term deformation in the Central Range of Taiwan induced by landslides, 35<sup>th</sup> IGC meeting, Aug. 27 – Sep. 4, Cape Town, South Africa..
10. Hsu, Y. J. and P. H. Chiang, Coseismic deformation of the  $M_w$  6.3 2016 Meinong earthquake and implications for fault activities and tectonics in southern Taiwan (2016), AOGS meeting, July 31 - August 5, Beijing, China
11. Hsu, Y. J., S. B. Yu, J. Loveless, T. Bacolcol, and R. Solidum (2015), Interseismic deformation and moment deficit along the Manila subduction zone and the Philippine fault system, AGU Fall Meeting, Dec. 14-18, San Francisco, USA. (**Invited speaker**)
12. Hsu, Y. J.\*, Y. S. Chang, C. C. Liu, H. M. Lee, A. T. Linde, S. I. Sacks, G. Kitagawa, and Y. G. Chen (2015), Revisiting borehole strain, typhoons, and slow earthquakes using quantitative estimates of precipitation induced strain changes, Earth observatory of Singapore, Oct. 6, Singapore.
13. Hsu, Y. J., R. F. Chen, C. W., Lin, H. Y. Chen, and S. B. Yu (2014), Seasonal, long-term, and short-term deformation in the Central Range of Taiwan induced by landslides, AGU Fall Meeting, Dec. 15-19, San Francisco, USA.
14. Hsu, Y. J., S. B. Yu, J. Loveless and T. Bacolcol (2013) Interseismic deformation along the Philippine fault system and Manila subduction zone, AGU Fall Meeting, Dec. 9-13, San Francisco, USA.
15. Hsu, Y. J., S. B. Yu, T. Bacolcol, and M. Ando, (2013) The potential large earthquake along the Taiwan plate boundary zone, 2013 Taiwan Geosciences assembly, May 13-17, Longtang, Taiwan (**Invited speaker**).



16. Hsu, Y. J., M. Simons, C. A. Williams, and E. Casarotti (2012) Three-dimensional FEM derived elastic Green's functions for the coseismic deformation of the 2005 Mw 8.7 Nias-Simeulue, Sumatra earthquake, European Geosciences Union General Assembly 2012, Apr. 22-27, Vienna, Austria.
17. Hsu, Y. J. and S. B. Yu (2011) Spatial heterogeneity of tectonic stress and friction in the crust: new evidences from earthquake focal mechanisms in Taiwan, AGU Fall Meeting, Dec. 5-9, San Francisco, USA.
18. Hsu, Y. J., C. C. Liu, Y. S. Chang, A. T. Linde, and I. S. Sacks, (2011) Strain changes revealed in borehole strainmeter array, eastern Taiwan, European Geosciences Union General Assembly 2011, Apr. 3-8, Vienna, Austria.
19. Hsu, Y. J. and S. B. Yu (2010) Deformation along the Taiwan-Luzon plate boundary from GPS velocity, stress inversion, and gravity data, AGU Fall Meeting, Dec. 13-17, San Francisco, USA. **(Invited speaker)**
20. Hsu, Y. J., S. B. Yu, Y. C. Tsai, H. Y. Chen, and C. S. Tsai (2010) Postseismic deformation a decade after the 1999 Chi-Chi, Taiwan earthquake, GEEA, July 5-9, Aix-en-Provence, France.
21. Hsu, Y. J., L. Rivera, Y. M. Wu, C. H. Chang, and H. Kanamori (2010) Spatial heterogeneity of tectonic stress and friction in the crust: new evidence from earthquake focal mechanisms in Taiwan, WPGM, June 22-25, Taipei, Taiwan.
22. Hsu, Y. J., Y. M. Wu, C. H. Chang, L. S. Teng, and M. Nakamura (2009) Temporal and spatial variation of stress fields before and after the 1999 Chi-Chi Taiwan earthquake, AGU Fall Meeting, Dec. 14-18, San Francisco, USA.
23. Hsu, Y. J., M. Simons, C. A. Williams, and E. Casarotti (2009) Effects of 3-D Green's functions, topography, and Poisson's ratio on coseismic deformation of subduction zone earthquakes, The 3rd Taiwan-Japan Earth Science Workshop, Feb. 28 –Mar. 2, Okinawa, Japan.
24. Hsu, Y. J., S. B. Yu, M. Simons, L. C. Kuo, and H. Y. Chen (2008) Crustal deformation in the Taiwan plate boundary zone revealed by GPS observations, seismicity, and earthquake focal mechanisms, AGU Fall Meeting, Dec. 15-19, San Francisco, USA **(Invited speaker)**
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Last updated on May 19, 2021