

# Hongfeng Yang

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Earth System Science Programme  
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## Education

Ph.D. (Seismology), Saint Louis University, 2010  
M.S. (Geophysics), University of Science and Technology of China, 2004  
B.S., University of Science and Technology of China, 2000

## Employment

08/2020-present, Associate Professor, The Chinese University of Hong Kong  
08/2014-07/2020, Assistant Professor, The Chinese University of Hong Kong  
05/2018-present, Guest Professor, State Key Laboratory of Earthquake Dynamics, Institute of Geology, China Earthquake Administration  
02/2013-07/2014, Research Scientist, Georgia Institute of Technology  
09/2010-01/2013, Postdoctoral Investigator, Woods Hole Oceanographic Institution

## Teaching

- The Chinese University of Hong Kong :  
*Seismology*, 2016-2020  
*Marine Geology and Geophysics*, 2016-2018  
*Physics of the Earth*, 2014-2020  
*Statistical Method and Data Analysis*, 2015-2019  
*Continuum Mechanics*, 2017  
*Exploring the Earth System*, 2017-2020  
*Applied Geophysics*, 2017-2020  
*Research Frontier of Earth and Atmospheric Sciences*, 2015-2020
- Short Course:  
*Earthquake Physics*, 2015-2018, Peking University  
*HypoDD and CAP methods*, 2013, Georgia Institute of Technology

## Research Interests

Earthquake source physics; Subduction zone processes and megathrust earthquakes; High-resolution structure and temporal variation of crustal fault zones; and Induced earthquakes

## Honors and Awards

- 2018, *Fuchengyi* Young Scientist Award, Chinese Geophysical Society
- 2017, 2016 Editors Citation for Excellence in Refereeing-Geophysical Research Letters
- 2012, Nominee for the Council of Graduate Schools/ProQuest Distinguished Dissertation Award, Saint Louis University
- 2010, 1st place in Graduate Research Symposium, Saint Louis University

- 2009, Travel Grant Awardee: SEG and SSA annual meetings

**Refereed Journal Publications** (\*corresponding author, †student/postdoc supervised)

1. Jiang, G.<sup>†</sup>, L. Liu, A. J. Barbour, R. Lu, and H. Yang (2020), Physics-based evaluation of the largest expected magnitude of induced seismicity at the World’s largest underground gas storage in Hutubi, China, *J. Geophys. Res.*, under review
2. Liu, Y., H. Yang\*, and Z. Shao (2020), Effects of subducted seamounts on shallow slow slip events within seismogenic zone, *Geology*, in prep.
3. Jiang, X.<sup>†</sup>, S. Hu, and H. Yang\* (2020), Depth extent and  $V_p/V_s$  of the Chenghai fault zone, Yunnan, China constrained from teleseismic receiver functions recorded by a linear dense array, *J. Geophys. Res.*, in prep.
4. Yao, S.<sup>†</sup>, and H. Yang\* (2020), Towards Quantitative Seismic Hazard Assessment from Interseismic Locking Models, *Earth Planet. Sci. Lett.*, submitted
5. Zhang, J.<sup>†</sup>, F. Zhang, J. Lin, and H. Yang (2020), 3-D brittle failure of the subducting plate at the Mariana Trench, *J. Geophys. Res.*, under review
6. Guo, R.<sup>†</sup>, H. Yang\*, Y. Zhu, Y. Zheng, J. Xu, L. Zhang, and C. An (2020), Narrow Rupture of the 2020  $M_w$  7.4 La Crucecita, Mexico, Earthquake, *Seismo. Res. Lett.*, under review
7. Jiang, X.<sup>†</sup>, H. Yang\*, W. Yang, and W. Wang (2020), Crustal structure in the Binchuan region of Yunnan using receiver function with a 2-D seismic dense array, *Earthquake Science*, under review
8. Zhou, P.<sup>†</sup>, W. L. Ellsworth, H. Yang\*, Y. J. Tan, G. C. Beroza, M. Sheng, and R. Chu (2020), Machine Learning Facilitated Earthquake Detections near the Weiyuan Shale Gas Blocks, Sichuan, China, *Earth Planet. Phys.*, in revision
9. Chen, H.<sup>†</sup>, X. He, H. Yang\* (2020), Fault-plane determination of the January 4th, 2020 Pearl River Delta earthquake and its implication for seismic hazard assessment, *Seismo. Res. Lett.*, revised
10. Zhang, J.<sup>†</sup>, H. Yang\*, H. Chen, F. Zhang, G. Zhu, and Z. Sun (2020), Lateral changes of in-plate stresses and seismicity at the southern Mariana Subduction zone, *Geophys. Res. Lett.*, revised
11. Yang, H.\* , Y. Duan<sup>†</sup>, W. Wang, W. Yang, X. Tian, and B. Wang (2020), Illuminating high-resolution crustal fault zones and temporal changes using multi-scale dense arrays and airgun sources, *Earthquake Res. China*, in minor revision
12. Sheng, M., R. Chu, S. Ni, Y. Wang, L. Jiang, and H. Yang (2020), Source parameters of three moderate-size earthquakes in Weiyuan, China, and their relations to shale gas hydraulic fracturing, *J. Geophys. Res.*, doi: 10.1029/2020JB019932
13. Li, F., Z. Sun, H. Yang, J. Lin, J. Stock, H. Xu, and L. Sun (2020), Continental interior and edge breakup at convergent margins induced by subduction direction reversal: A numerical modeling study applied to the South China Sea margin, *Tectonics*, doi:10.1029/2020TC006409

14. Yun, N., H. Yang\*, and S. Zhou (2020), DynTriPy: A Python Package for Detecting Dynamic Earthquake Triggering Signals, *Seismo. Res. Lett.*, doi:10.1785/0220200216
15. Yang, H.\*, P. Zhou<sup>†</sup>, N. Fang, G. Zhu<sup>†</sup>, W. Xu, J. Su, F. Meng, and R. Chu (2020), A shallow shock: the 25 February 2019  $M_L$  4.9 earthquake in the Weiyuan shale gas field in Sichuan, China, *Seismo. Res. Lett.*, doi:10.1785/0220200202
16. Chen, X.<sup>†</sup>, and H. Yang\* (2020), Effects of seismogenic width and low-velocity zones on estimating slip-weakening distance from near-fault ground deformation, *Geophys. J. Int.*, vol.223, pp.1497–1510, ggaa385, <https://doi.org/10.1093/gji/ggaa385>
17. Wang, M., H. Yang, L. Fang, L. Han, D. Jia, D. Jiang, and B. Yan (2020), Shallow faults reactivated by hydraulic fracturing: The 2019 Weiyuan earthquake sequences in Sichuan, China, *Seismo. Res. Lett.*, XX, 1-11, doi:10.1785/0220200174
18. Yang, H.\*, Y. Duan<sup>†</sup>, J. Song<sup>†</sup>, X. Jiang<sup>†</sup>, X. Tian, W. Yang, W. Wang, and J. Yang (2020), Fine structure of the Chenghai fault zone, Yunnan, China constrained from teleseismic travel time and ambient noise tomography, *J. Geophys. Res.*, vol.125, 7, e2020JB019565, doi: 10.1029/2020JB019565
19. Yao, S.<sup>†</sup>, and H. Yang\* (2020), Rupture Dynamics of the 2012 Nicoya  $M_w$  7.6 Earthquake: Evidence for Low Strength on the Megathrust, *Geophys. Res. Lett.*, 47, e2020GL087508, <https://doi.org/10.1029/2020GL087508>
20. Zhu, G.<sup>†</sup>, H. Yang\*, J. Lin, and Qingyu You (2020), Determining the orientation of ocean-bottom seismometers on the seafloor and correcting for polarity flipping via polarization analysis and waveform modeling, *Seismo. Res. Lett.*, 91(2A), p.814–825, doi: 10.1785/0220190239.
21. Jiang, G.<sup>†</sup>, X. Qiao, X. Wang, R. Lu, L. Liu, H. Yang, Y. Su, L. Song, B. Wang, and T.F. Wong (2020), GPS observed horizontal ground extension at the Hutubi (China) underground gas storage facility and its application to geomechanical modeling for induced seismicity, *Earth Planet. Sci. Lett.*, 530, <https://doi.org/10.1016/j.epsl.2019.115943>
22. Yun, N.<sup>†</sup>, S. Zhou, H. Yang\*, H. Yue, and L. Zhao (2019), Automated Detection of Dynamic Earthquake Triggering Signals by High Frequency Power Integral Ratio, *Geophys. Res. Lett.*, vol.46 (22), pp. 12977-12985, doi: 10.1029/2019GL083913
23. Yang, H.\*, S. Yao<sup>†</sup>, B. He<sup>†</sup>, A. Newman, and H. Weng<sup>†</sup> (2019), Deriving rupture scenarios from interseismic locking distributions along the subduction megathrust, *J. Geophys. Res.*, doi:10.1029/2019JB017541, 124, <https://doi.org/10.1029/2019JB017541>
24. Zhou, P.<sup>†</sup>, H. Yang\*, B. Wang, and J. Zhuang (2019), Seismological investigations of induced earthquakes near the Hutubi underground gas storage facility, *J. Geophys. Res.*, doi:10.1029/2019JB017360
25. Zhu, G.<sup>†</sup>, H. Yang\*, J. Lin, Z. Zhou, M. Xu, J. Sun, and K. Wan (2019), Along-strike variation in slab geometry at the southern Mariana subduction zone revealed by seismicity through ocean bottom seismic experiments, *Geophys. J. Int.*, V.218 no.3, p.2122-2135, doi:10.1093/gji/ggz272

26. Li, F., Z. Sun, X. Pang, J. Liao, H. Yang, H. Xie, H. Zhuo, and Z. Zhao (2019), Low-viscosity crustal layer controls the crustal architecture and thermal distribution at hyper-extended margins: Modeling insight and application to the northern South China Sea margin, *G-Cubed*, doi: 10.1029/2019GC008200
27. Yang, H.\*, S. Yao<sup>†</sup>, B. He<sup>†</sup>, and A. Newman (2019), Earthquake rupture dependence on hypocentral location along the Nicoya Peninsula subduction megathrust, *Earth Planet. Sci. Lett.*, 520, p.10-17, <https://doi.org/10.1016/j.epsl.2019.05.030>
28. Wan, K., J. Lin, S. Xia, J. Sun, M. Xu, H. Yang, Z. Zhou, X. Zeng, J. Cao, and H. Xu (2019), Deep seismic structure across the southernmost Mariana Trench: Implications for arc rifting and plate hydration, *J. Geophys. Res.*, doi:10.1029/2018JB017080
29. Li, W., Y. Chen, F. Liu, H. Yang, J. Liu, and B. Fu (2019), Chain-style landslide hazardous process: Constraints from seismic signals analysis of the 2017 Xinmo landslide, SW China, *J. Geophys. Res.*, doi:10.1029/2018JB016433
30. Zhang, J., Z. Sun, M. Xu, H. Yang, Y. Zhang, and F. Li (2018), Lithospheric 3-D flexural modelling of subducted oceanic plate with variable effective elastic thickness along Manila Trench, *Geophys. J. Int.*, ggy393, <https://doi.org/10.1093/gji/ggy393>
31. Li, F.<sup>†</sup>, Z. Sun, and H. Yang\* (2018), Possible spatial distribution of the Mesozoic volcanic arc in the present-day South China Sea continental margin and their tectonic implications, *J. Geophys. Res.*, 123, 6215-6235, doi:10.1029/2017JB014861
32. Weng, H.<sup>†</sup> and H. Yang\* (2018), Constraining frictional properties on fault by dynamic rupture simulations and near-field observations, *J. Geophys. Res.*, v.123, p.6658-6670 doi:10.1029/2017JB015414, <https://doi.org/10.1029/2017JB015414>
33. Meng, X., H. Yang, and Z. Peng (2018), Foreshocks, b value Map and Aftershock Triggering for the 2011  $M_w$  5.7 Virginia Earthquake, *J. Geophys. Res.*, 123, 5082-5098, doi: 10.1029/2017JB015136, <https://doi.org/10.1029/2017JB015136>
34. He, L., X. Sun, H. Yang, S. Wang, Y. Shen, and X. Ye (2018), Upper crustal structure and earthquake mechanism in the Xinfengjiang water reservoir, Guangdong, China, *J. Geophys. Res.*, 123, 3799-3813, <https://doi.org/10.1029/2017JB015404>
35. Yu, H., Y. Liu, H. Yang, and J. Ning (2018), Modeling earthquake sequences along the Manila subduction zone: Effects of three dimensional fault geometry, *Tectonophysics*, <https://doi.org/10.1016/j.tecto.2018.01.025>
36. Zhang, F.<sup>†</sup>, J. Lin, Z. Zhou, H. Yang, and W. Zhan (2018), Intra- and intertrench variations in flexural bending of the Manila, Mariana and global trenches: implications on plate weakening in controlling trench dynamics, *Geophys. J. Int.*, vol.212, p.1429–1449, ggx488, <https://doi.org/10.1093/gji/ggx488>
37. Yang, H., Y. Liu, M. Wei, J. Zhuang, and S. Zhou (2017), Induced earthquakes in the development of unconventional energy resources, *Science China Earth Sciences*, 60:1-13, doi:10.1007/s11430-017-9063-0
38. Weng, H.<sup>†</sup>, and H. Yang\* (2017), Seismogenic width controls aspect ratios of earthquake ruptures, *Geophys. Res. Lett.*, doi:10.1002/2016GL072168

39. Zhu, G.<sup>†</sup>, X. Liang, X. Tian, H. Yang, C. Wu, Y. Duan, W. Li, and B. Zhou (2017), Analysis of the seismicity in central Tibet based on the SANDWICH network and its tectonic implications, *Tectonophysics*, doi: 10.1016/j.tecto.2017.02.020
40. Yin, J.<sup>†</sup>, H. Yao, H. Yang\*, W. Qin, J. Liu, and H. Zhang (2017), Frequency-dependent rupture process, stress change, and seismogenic mechanism of the 25 April 2015 Nepal Gorkha  $M_w$  7.8 earthquake, *Science China Earth Sciences*, 60:1-13, doi:10.1007/s11430-016-9006-0
41. Luan, Y.<sup>†</sup>, H. Yang\*, and B. Wang (2016), Large volume air-gun waveform data processing (I): Binchuan, Yunnan, *Earthquake Research in China*, in Chinese, Vol.32, No.2, p.305–318
42. Weng, H.<sup>†</sup>, H. Yang\*, Z. Zhang, and X. Chen (2016), Earthquake rupture extents and coseismic slips promoted by damaged fault zones, *J. Geophys. Res.*, 121, Vol.121, No.6, p.4445–4457, doi:10.1002/2015JB012713
43. Yin, J.<sup>†</sup>, H. Yang\*, H. Yao, and H. Weng<sup>†</sup> (2016), Coseismic radiation and stress drop during the 2015  $M_w$ 8.3 Illapel, Chile megathrust earthquake, *Geophys. Res. Lett.*, Vol.43, doi:10.1002/2015GL067381
44. Yang, H., J. Lin, J. Yin<sup>†</sup>, and H. Yao (2015), Tectonic settings of the 2015 Mw 8.3 Coquimbo, Chile earthquake and its implications on megathrust earthquakes, *Chinese Sci. Bull.*, Vol.60, p.1-8, doi: 10.1360/N972015-01110
45. Weng, H.<sup>†</sup>, J. Huang, and H. Yang\* (2015), Barrier-induced supershear ruptures on a slip weakening fault, *Geophys. Res. Lett.*, doi:10.1002/2015GL064281
46. Yang, H. (2015), Recent advances in imaging crustal fault zones: a review, *Earthquake Science*, Vol.28 (2), p.151-162, doi:10.1007/s11589-015-0114-3
47. Yang, H., Z. Li, Z. Peng, Y. Ben-Zion, and F. Vernon (2014), Low velocity zones along the San Jacinto Fault, Southern California, from body waves recorded in dense linear arrays, *J. Geophys. Res.*, doi: 10.1002/2014JB011548.
48. 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. of Seismol. Soc. Am.*, Vol. 103, 6, doi: 10.1785/0120130117.
49. Yang, H., Y. Liu, and J. Lin (2013), Geometrical effects of a subducted seamount on stopping megathrust ruptures, *Geophys. Res. Lett.*, 40, 2011-2016, doi:10.1002/grl.50509.
50. Yang, H., Y. Liu, and J. Lin (2012), Effects of subducted seamounts on megathrust earthquake nucleation and rupture propagation, *Geophys. Res. Lett.*, Vol. 39, L24302, doi:10.1029/2012GL053892.
51. Yang, H., L. Zhu, and E. S. Cochran (2011), Seismic structures of the Calico fault zone inferred from local earthquake travel time modeling, *Geophys. J. Int.*, 186(2), 760-770, doi: 10.1111/j.1365-246X.2011.05055.x.
52. Yang, H., and L. Zhu (2010), Shallow low-velocity zone of the San Jacinto fault from local earthquake waveform modeling, *Geophys. J. Int.*, 183(1), 421-432, doi: 10.1111/j.1365-246X.2010.04744.x.

53. Yang, H., L. Zhu, and R. Chu (2009), Fault-Plane Determination of the 18 April 2008 Mt. Carmel, Illinois, Earthquake by Detecting and Relocating Aftershocks, *Bull. of Seismol. Soc. Am.*, 99(6), 3413-3420, doi: 10.1785/0120090038.
54. Li, H., L. Zhu, and H. Yang (2007), High-resolution structures of the Landers fault zone inferred from aftershock waveform data, *Geophys. J. Int.*, 171(3), 1295-1307, doi:10.1111/j.1365-246X.2007.03608.x.
55. Xiao, W., J. Ren, F. Qi, Z. Song, M. Zhu, H. Yang, H. Jin, B. Wang, T. Zhou (2007), Empirical study on clique-degree distribution of networks, *Phys. Rev. E*, 76(3), 037102 p1-4, doi:10.1103/PhysRevE.76.037102.
56. Yang, H. and X. Shi (2004), Experimental study of wave velocity of sandstones under axial pressure. *Progress in Geophysics*, 19(2), 481-485.
57. Li, S., X. Shi, B. Wang, L. Ye, D. Sun, D. Wen, and H. Yang (2002), Analyzing characters of formation attenuation on seismic records, *Oil Geophys. Prospecting*, 37(3), 248-253.

### **Non-refereed Publications**

1. Yao, H., B. Wang, X. Tian, H. Yang, and X. Tian (2019), Preface to the special issue of Dense Array Seismology, *Earthquake Science*, 31, 225-226, doi: 10.29382/eqs-2018-0225-1
2. Yang, H. (2016), Unlocking the Mysteries of Earthquakes and Deep Ocean, Sustainable Campus, the Chinese University of Hong Kong, <http://www.iso.cuhk.edu.hk/english/publications/sustainable-campus/article.aspx?articleid=64285>
3. Yang, H. (2010), Study of earthquake fault zone structures by aftershock location and high-frequency waveform modeling, Ph.D Dissertation, Saint Louis University, Saint Louis, MO, USA
4. Yang, H. (2003), Experimental study of viscoelasticity and wave velocity of rocks. Master Thesis, in Chinese, University of Science and Technology of China, Hefei, Anhui, China
5. Yang, H. (2000), Improvement of the frequency-ratio method of measuring Q factor, Bachelor Thesis, in Chinese, University of Science and Technology of China, Hefei, Anhui, China

### **Hong Kong RGC Grants**

1. Modeling rupture segmentation and tsunamigenic rupture scenarios along the Cascadia megathrust, Yang, H., 10/2019-9/2022, RGC GRF, Hong Kong
2. Inferring frictional properties on seismogenic faults from kinematic and dynamic earthquake source modeling, Yang, H., 01/2019-12/2021, RGC GRF, Hong Kong
3. Investigation of fault zone structure and evolution from waveforms recorded at a dense seismic network, Yang, H., 09/2017-08/2020, RGC GRF, Hong Kong
4. Source characteristics of induced earthquakes associated with shale gas production in Weiyuan, Sichuan, Yang, H., 01/2017-12/2020, RGC/NSFC joint scheme, Hong Kong
5. Investigation of shallow seismogenesis on the southern Mariana megathrust, Yang, H., 01/2017-12/2019, RGC GRF, Hong Kong

6. Investigation of characteristics and mechanism of earthquakes associated with the Hutubi gas reservoir, *Wong, T., H. Yang, and L. Liu*, 01/2016-12/2019, RGC/NSFC joint scheme, Hong Kong
7. Dynamic Controls on Megathrust Slip: Details from the Nicoya 2012 Earthquake, *Yang, H.*, 01/2016-12/2018, RGC ECS, Hong Kong

### Other Grants

1. Investigating temporal changes of the southern Chenghai fault zone by Binchuan airgun, *Yang, H.*, 05/2019-12/2020, CEA China Earthquake Experiment Site
2. High-resolution of fault zone structure derived from waveform modeling and imaging, *Yang, H.*, 12/2018-12/2021, Major project of Ministry of Science and Technology, China
3. Scaling law and dynamics mechanism of earthquake sources, *Yang, H.*, 08/2017-07/2020, Open Fund of Key Lab of Earthquake Source Dynamics, Institute of Geology, CEA
4. High-resolution fault zone structure and temporal changes of the Chenghai fault inferred from waveforms recorded at a dense seismic array, *Yang, H.*, 07/2017-07/2018, CEA Chuandian Earthquake Center
5. Numerical simulations of earthquake cycles on the Xiaojinhe and Xianshuihe faults, *Yang, H.*, 07/2017-07/2018, CEA Chuandian Earthquake Center
6. High-resolution fault zone structure and seismicity near the Xinfengjiang reservoir, *Yang, H.*, 01/2017-12/2018, Open Fund of Isotope Key Lab, Guangzhou Institute of Geochemistry, China Academy of Science
7. Seismicity induced by underground injection and extraction of natural gas, *Yang, H.*, 06/2016-05/2017, CUHK-UoM Research Fund
8. Effects of subducted seamounts on megathrust earthquakes, *Yang, H.*, 03/2015-02/2016, Direct Research Grant, CUHK, Hong Kong
9. Detecting Low-Frequency Earthquakes within Deep Tremor in California, *Peng, Z., and H. Yang*, 02/2014–01/2015, Southern California Earthquake Center
10. Pilot Investigation of the Effects of Subducted Seamount on Megathrust Earthquakes, *Yang, H., Y. Liu, and J. Lin*, 09/2011–09/2012, Deep Ocean Exploration Institute award, Woods Hole Oceanographic Institution

### Synergistic Activities and Professional Societies

- Associate Editor of *Seismological Research Letters*
- Editorial board of *Earth and Planetary Physics* and *Earthquake Research*
- Committee:

Marine Geophysics, Chinese Geophysical Society;

Seismology, Seismological Society of China;

Tectonophysics, Seismological Society of China;

China Earthquake Experimental Site, China Earthquake Administration

- Membership: American Geophysical Union (AGU), Chinese Geophysical Society (CGS), Seismological Society of America (SSA), Seismological Society of China (SSOC), Southern California Earthquake Center (SCEC)
- Reviewer: NSF-Earthscope, NSF-Geophysics; *Bull. Seismol. Soc. Am.*, *Earth Planet. Sci. Lett.*, *Geophys. J. Int.*, *Geophys. Res. Lett.*, *J. Geophys. Res.*, *Marine Geophys. Res.*, *Nature Scientific Reports*, *Science China D*, *Science Bull.*, *Seismol. Res. Lett.*, *Tectonophysics*
- Outstanding Student Paper Judge: AGU since 2012; Earthscope meeting, 2011
- Conference/Workshop organized:
  - 2019.04: 5th International Conference on Rock Physics, CUHK, Hong Kong, China
  - 2018.11: South China Sea Tectonics and Subduction Zone Dynamics, CUHK, Hong Kong, China
  - 2018.3: Seismicity near the Hutubi Underground Gas Storage and Mechanism of Induced Earthquakes, CUHK, Hong Kong, China
  - 2017.5: Forum on Ocean and Earthquake, SUSTC, Shenzhen, China
  - 2017.2: Accretion and Subduction of the Oceanic Lithosphere, from Ridge to Trench, CUHK, Hong Kong, China
- Conference session convener and/or chair:
  - 2019, Linking Earthquake Kinematics with Dynamics, AGU Fall Meeting, San Francisco, USA
  - 2019, Integrated investigations on earthquake source physics process and earthquake hazard assessment, China Geosciences Union Annual Meeting, Beijing, China
  - 2018, Shallow subduction zone structure and dynamics, AGU Fall Meeting, Washington DC, USA
  - 2018, Recent advances in earthquake source physics and faulting mechanics, China Geosciences Union Annual Meeting, Beijing, China
  - 2018, Accretion and Subduction of the Oceanic Lithosphere, from Ridge to Trench, Asia Oceania Geosciences Society Annual Meeting, Honolulu, USA
  - 2018, Faulting and earthquake dynamics, International Conference for the Decade Memory of the Wenchuan Earthquake, Chengdu, China
  - 2017, Dynamic Earth high-resolution imaging and temporal changes monitoring at a variety of scales, AGU Fall Meeting, New Orleans, USA
  - 2017, Faulting mechanics and earthquake physics, China Geosciences Union Annual Meeting, Beijing, China
  - 2016, A spectrum of fault slip along subduction zones: From megathrust earthquakes to aseismic transient slip, Asia Oceania Geosciences Society Annual Meeting, Beijing, China
  - 2016, 2015, Frontier in Earthquake Physics, China Geosciences Union Annual Meeting, Beijing, China
  - 2015, Slow Earthquakes: Diversity in Fault Motion and Their Implications in Earthquake Dynamics, SSA Annual Meeting, Pasadena, CA, US
  - 2012, Evolution and Mechanics of Continental and Oceanic Lithosphere, Deep Sea and Earth System Science Meeting, Shanghai, China
  - 2012, Subducted Seamount and Earthquakes, SSA Annual Meeting, San Diego, CA, US



2007, High-Resolution Imaging of Active Fault Zone Structures, AGU Fall Meeting, San Francisco, CA, US

### **University, Department, and Programme services**

- University representative of IRIS (Incorporated Research Institute of Seismology)
- Faculty Board member and Committee of Exchange Student Program in Faculty of Science, CUHK
- Programme representative of Library Committee
- Seminar coordinator of Earth System Sciences Programme
- Coordinator of academic exchange and collaboration with OALC
- Programme representative at New Asia College

### **Students and Postdocs Supervised**

1. Bing He, MPhil, 2015.08 - 2017.07, now PhD student at University of Rhode Island
2. Yi Luan, PhD, 2015.08-
3. Gaohua Zhu, PhD, 2016.08-
4. Xiang Chen, PhD, 2016.08-
5. Pengcheng Zhou, PhD, 2016.08-
6. Martin Bing Hun Lee, MPhil, 2016.08 - 2019.08
7. Suli Yao, PhD, 2017.08-
8. Han Chen, PhD, 2018.08-
9. Junhao Song, PhD, 2019.08-
10. Huihui Weng, Postdoc fellow, 2015.09 - 2018.04, now postdoc at University of Nice
11. Fan Zhang, Postdoc fellow, 2016.01 - 2017.06, now Research Professor at South China Sea Institute of Oceanology
12. Yaohui Duan, Postdoc fellow, 2017.11 - 2019.02
13. Jiangyang Zhang, Postdoc fellow, 2019.05-
14. Xiaohuan Jiang, Postdoc fellow, 2019.08-
15. Huihui Weng, visiting PhD, 2015.02-2015.05, now postdoc at University of Nice
16. Jiuxun Yin, visiting MPhil, 2015.09-2015.12, now PhD at Harvard University
17. Chuan Yan, Honorary postdoc fellow, 2016.09-2016.11
18. Laiyin Guo, visiting PhD, 2017.09-2017.12, Tongji University

**Media interview**

- Earthquake and tsunami threat of the Makran margin, Xinhua News Agency, 01/2018
- 2017 Sichuan Jiuzhaigou earthquake, Southern China Morning Post, 08/2017
- Ring of Fire, CNN International, 01/2017
- Can animals predict earthquakes, Financial Times, 07/2015
- When God's Wrath Visits: the science of earthquakes, CUHK Newsletter, 05/2015
- 2015 Nepal Earthquake, Wall Street Journal, 04/2015

**Field Work and Sea Experience**

- R/V Shiyan 3, China-Pakistan Joint Research Expedition, 01/2018
- Seismic experiment of short-period seismometers in Binchuan, Yunnan, China, 01/2018
- Field deployment of short-period seismometers near Xinfengjiang water reservoir, Guangdong, China, 01/2015
- Field deployment of broad-band seismometers in Wabash Valley, Illinois, US, 05/2014
- R/V Wecoma, Broad-band Ocean Bottom Seismograph recovery cruise on Cascadia margin, 06/2011
- Field deployment of Trillium 40 and 120, CMG 3T broad-band seismometers, and Taurus and RefTek 130 data acquisition systems, China, 05/2010