

Hongfeng Yang

Academic qualifications:

2005-2010	Saint Louis University	Ph. D. (Seismology)
2000-2003	Univ. of Sci. and Tech. China	M. S. (Geophysics)
1996-2000	Univ. of Sci. and Tech. China	B. S. (Geophysics)

Academic positions:

2024.8-	Professor	The Chinese University of Hong Kong
2020.8-2024.7	Associate professor	The Chinese University of Hong Kong
2014.8-2020.7	Assistant professor	The Chinese University of Hong Kong
2013.2-2014.7	Research Scientist	Georgia Institute of Technology
2010.9-2013.1	Postdoctoral Investigator	Woods Hole Oceanographic Institution

Honorary Appointment:

2023.11-	Scientific Advisor	Hong Kong Observatory
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Honors and Awards:

- World's Top 2% Scientists, Elsevier and Stanford University, 2024
- Innovative Exploration Award of Dense Array, CGS-Continental Dynamics, 2023
- High Citation Paper, CNKI, 2023
- Exemplary Teaching Award, Faculty of Science, CUHK, 2022
- Outstanding Associate Editor, Earthquake Research Advances, 2022
- Outstanding Associate Editor, Earthquake Science, 2021
- Outstanding Editorial Service, Earth and Planetary Physics, 2020 - 2022
- *Fuchengyi* Young Scientist Award, Chinese Geophysical Union, 2018

Research Interest:

- Spontaneous rupture and earthquake cycle simulations
- Induced earthquakes
- Earthquake source modeling, high-resolution imaging of crustal fault zone structure
- Subduction zone exploration using Ocean Bottom Seismograph data

Professional Services

- Hong Kong Representative for APEC Cooperation Earthquake Science
- Representative of CUHK for EarthScope, USA
- Editor: Earthquake Science
- Associate Editor: Seismological Research Letters and Earthquake Research Advances
- Proposal reviewer for National Science Foundation (US) since 2012, National Natural Science Foundation of China (NSFC) since 2021, French National Research Agency (2024)
- Journal reviewer for BSSA, EPSL, GJI, GRL, JGR, PAGEO, Nature Communication, Nature Physics, Nature Scientific Reports, Science, Science Advances, Science China Earth Sciences, SRL, and Tectonophysics
- Session convener and chair for AGU (2007, 2017-2019), SSA (2012, 2015, 2025), China Geosciences Union Annual Meeting (2015-2025), Asia Oceania Geosciences Society Annual Meeting (2016-2018, 2024-25), and Deep Sea Sciences Meeting (2012)

Full Publication list can be found: <https://www.cuhk.edu.hk/sci/essc/yang/publications/>

Selected representative publications

- Zi, J., Y. Yang, **H. Yang**, and J. Su (2025), The 11-month precursory fault activation of the 2019 Mw 5.0 earthquake in the Weiyuan shale gas field, China, *Nature Communications Earth & Environment*, <https://doi.org/10.1038/s43247-025-02151-1>
- Yao, S., and **H. Yang** (2025), Rupture phase reveals geometry-controlled rupture propagation in a natural earthquake, *Science Advances*, 11(4), doi:10.1126/sciadv.adq0154
- Chen, H., **H. Yang**, G. Zhu, M. Xu, J. Lin, and Q. You (2022), Deep outer-rise faults in the Southern Mariana Subduction Zone indicated by a machine-learning-based high resolution earthquake catalog, *Geophys. Res. Lett.*, doi:10.1029/2022GL097779
- Yang, H.**, S. Yao, B. He, and A. Newman (2019), Earthquake rupture dependence on hypocentral location along the Nicoya Peninsula subduction megathrust, *Earth Plane. Sci. Lett.*, 520, p.10-17, doi:10.1016/j.epsl.2019.05.030
- 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.
- 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.
- 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. Seismol. Soc. Am.*, 99(6), 3413-3420, doi: 10.1785/0120090038.