

Curriculum Vitae

Kuan-Fu Feng 馮冠芙

Institute of Earth Sciences, Academia Sinica
No. 128, Sec. 2, Academia Road, Nangang, Taipei 11529, Taiwan
Contact Tel: +886-2-2783-9910 ext. 1500
E-mail: kuanfufeng@gmail.com



Research interest

Temporal seismic velocity changes | Seismic noise interferometry | Volcano seismology

Education

Ph.D., Geosciences, National Taiwan University, Taiwan	2017/09 – 2022/01
M.S., Geosciences, National Taiwan University, Taiwan	2014/09 – 2016/06
B.S., Earth and Environment Sciences, National Chung Cheng University, Taiwan	2010/09 – 2014/01

Research Positions

Postdoctoral Fellow, Institute of Earth Sciences, Academia Sinica, Taiwan	2022/01 – present
Research assistant, Institute of Earth Sciences, Academia Sinica, Taiwan	2016/10 – 2017/08
Research assistant, National Chung Cheng University, Taiwan	2014/02 – 2014/06

Journal articles

- Feng, K.-F.***, H.-H. Huang*, Ya-Ju Hsu and Y.-M. Wu (2021), Controls on seasonal variations of crustal seismic velocity in Taiwan using single-station cross-component analysis of ambient noise interferometry, *J. Geophys. Res., Solid Earth*, e2021JB022650. <https://doi.org/10.1029/2021JB022650>.
- Hsu, Y.-F., H.-H. Huang*, M.-H. Huang, V. C. Tsai, R. Y. Chuang, **K.-F. Feng** and S.-H. Lin (2020), Evidence for Fluid Migration During the 2016 Meinong Taiwan Aftershock Sequence, *J. Geophys. Res., Solid Earth*, 125(9), e2020JB019994. <https://doi.org/10.1029/2020JB019994>.
- Feng, K.-F.**, H.-H. Huang* and Y.-M. Wu (2020), Detecting pre-eruptive magmatic processes of the 2018 eruption at Kilauea, Hawaii volcano with ambient noise interferometry. *Earth, Planets and Space*, 72:74. <https://doi.org/10.1186/s40623-020-01199-x>
- Lee, S.-J.*, T.-C. Lin, **K.-F. Feng**, and T.-I. Liu (2018), Composite megathrust rupture from deep interplate to trench of the 2016 Solomon Islands earthquake. *Geophysical Research Letters*, 45(2), 674-681. <https://doi.org/10.1002/2017GL076347>
- Brown, D.*, Y.-M. Wu, **K.-F. Feng**, W.-A. Chao, and H.-H. Huang (2015), Imaging high-pressure rock exhumation in eastern Taiwan. *Geology*, 43(7), 651-654. <https://doi.org/10.1130/G36810.1>

Conference presentation

Oral presentation

2022 The 5th Taiwan Earthquake Center (TEC) Annual Meeting, Taiwan

A Noise-Based Monitoring System of Crustal Seismic Velocity Changes in Taiwan.

2021 Geological and Geophysical Annual Meeting, Taiwan

Revealing seasonal crustal seismic velocity variations in Taiwan with single-station cross-component analysis. Abstract S3-O-01. Session: S3

2021 European Geosciences Union (EGU) Annual Meeting, ONLINE

Revealing seasonal crustal seismic velocity variations in Taiwan with single-station cross-component analysis. Abstract: EGU2021-7010. Session: SM3.1

2020 Geological and Geophysical Annual Meeting, Taiwan

Single-station cross-component analysis of ambient noise reveals seasonal crustal seismic velocity variations in Taiwan. Abstract S3-O-02. Session: S3

2019 American Geophysical Union (AGU) Fall Meeting, California

Detection of a precursory phase of the 2018 magma eruption in the Lower East Rift Zone of Kilauea volcano, Hawaii. Abstract: 508923. Session: V43B-03

2019 Workshop on “Frontiers in Seismic Interferometry”, Taiwan

Detecting pre-eruptive magmatic process of the 2018 eruption in the Lower East Rift Zone of Kilauea, Hawaii volcano with seismic noise interferometry

Poster presentation

2021 American Geophysical Union (AGU) Fall Meeting, ONLINE

Assessment of controlling factors on seasonal variations of crustal seismic velocity in Taiwan using ambient noise single-station cross-component analysis.

2020 Geological and Geophysical Annual Meeting, Taiwan

Co-seismic variations in crustal seismic velocity related to M6+ earthquakes in Taiwan. Abstract S3-PC-006

2020 The 4th Taiwan Earthquake Center (TEC) Annual Meeting, Taiwan

Single-station cross-component analysis of ambient noise: seasonal crustal seismic velocity variations in Taiwan. Abstract P01

2019 European Geosciences Union (EGU) Annual Meeting, Vienna

Detection of a precursory phase of the 2018 magma eruption in the Lower East Rift Zone of Kilauea volcano, Hawaii. Abstract: EGU2019-3322

2018 The 3rd Taiwan Earthquake Center (TEC) Annual Meeting, Taiwan

Revealing pre-eruptive phase of the magma extrusion in lower East Rift Zone of Kilauea volcano,

2018 The 15th Asia Oceania Geosciences Society (AOGS) Meeting, Hawaii

Near real-time monitoring system of the seismic velocity changes in Taiwan. Abstract SE03-A023

2017 American Geophysical Union (AGU) Fall Meeting, New Orleans

Seismogenic structure in Chiayi area, Taiwan: Insight from the 2017 ML5.1 Zhongpu earthquake sequence. Abstract T43C-0719

2017 Geological and Geophysical Annual Meeting, Taiwan

Near real-time monitoring system of the seismic velocity changes in Taiwan. Abstract SP-074

2016 Geological and Geophysical Annual Meeting, Taiwan

Investigating the uncertainty of time-dependent seismic velocity changes using travel time tomography: a case study of the ML 6.4 2013 Rueisuei earthquake, Taiwan. Abstract PP-319

2015 The 26th International Union of Geodesy and Geophysics (IUGG) General Assembly, Czech Republic

Temporal changes of seismic velocity in crust associated with $ML > 6.0$ earthquakes, Taiwan in recent years. Abstract S01bp-323.

2015 Geological and Geophysical Annual Meeting, Taiwan

Temporal changes of seismic velocity in crust associated with $ML > 6.0$ earthquakes, Taiwan in recent years.

Honor and Awards

- 2021** Postdoc research abroad fellowship from Ministry of Science and Technology, Taiwan (starting in 2022)
- 2021** Prof. Yi-Ben Tsai Graduate Student Scholarship by Chinese Taipei Geophysics Society (CGS)
- 2019** Outstanding Student Paper Awards in International Conferences by Earth Science Research Promotion Center (ESPRC)
- 2019** Invited talk at Workshop on Frontiers in Seismic Interferometry
- 2013** Excellent Student Scholarship, Chinese Taipei Geophysical Society
- 2012** Outstanding Student Scholarship, National Chung Cheng University
- 2011** Outstanding Student Scholarship, National Chung Cheng University
- 2010** Outstanding Student Entrance Scholarship, National Chung Cheng University