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Education

2020/05 **Ph.D.**, Department of Geosciences, National Taiwan University

Employment

2021/06 - present: **Assistant Research Scientist**, Institute of Earth Sciences, Academia Sinica

2020/06 - 2021/05: **Postdoctoral Fellow**, Institute of Earth Sciences, Academia Sinica

Research Interests

Observational Seismology, Earth Structure, Seismic Interferometry

Cloud Technology, Applications of Machine Learning on Geosciences

Selected Publications

1. Huang, B. S., **C. S. Ku**, C. J. Lin, Y. J. Hsu, T. C. Liu, J. Y. Liu, Y. L. E. Chen, D. Y. Chen, T. S. Huang, and J. S. Jiang, (2024), Significant Earth's responses of the 2022 Tonga eruption across Taiwan from multiple sensor observations, *Frontiers in Earth Science*, accepted.
2. Sun, W. F., S. Y. Pan, C. M. Huang, Z. K. Guan, I. C. Yen, C. W. Ho, T. C. Chi, **C. S. Ku**, B. S. Huang, C. C. Fu, and H. Kuo-Chen, (2024), Deep learning-based earthquake catalog reveals the seismogenic structure of the 2022 M_w 6.9 Chihshang earthquake sequence, *Terr. Atmos. Ocean. Sci.*, 35, 5. <https://10.1007/s44195-024-00063-9>
3. Huang, B. S., **C. S. Ku**, C. J. Lin, S. J. Lee, Y. L. E. Chen, J. S. Jiang, and W. F. Sun, (2024), The first 30 min hidden aftershocks of the 2022 September 17, M_L 6.4, Guanshan, Taiwan earthquake and its seismological implications, *Terr. Atmos. Ocean. Sci.*, 35, 1. <https://doi.org/10.1007/s44195-023-00059-x>
4. Huang, H. H., K. F. Ma, E. S. Wu, Y. Z. Cheng, C. J. Lin, **C. S. Ku**, P. L. Su, and MiDAS working group, (2023), Spatiotemporal monitoring of a frequency-slip fault zone using downhole distributed acoustic sensing at the MiDAS Project, *AGU Books*, in press.
5. Chen, Y., P. Gueguen, K. H. Chen, C. J. Lin, **C. S. Ku**, W. G. Huang, B. S. Huang, and K. C. Chen, (2023), Dynamic Characteristics of TAIPEI 101 Skyscraper from Rotational and Translation Seismometers, *Bul. Seism Soc. Am.*, 113(2), 690-709. <https://doi.org/10.1785/0120220147>
6. Lin, C. J., **C. S. Ku**, T. C. Chi, B. S. Huang, H. H. Huang, and C. C. Liu, (2022), Correcting the Background Tilt Signal of the Horizontal Seismometer Using a Rotation Sensor, *Seismol. Res. Lett.*, 93 (3), 1564-1572. <https://doi.org/10.1785/0220210185>
7. **Ku, C. S.**, Y. T. Kuo, B. S. Huang, Y. G. Chen and Y. M. Wu, (2020), Seismic velocity structure beneath the Western Solomon Islands from the joint inversion of receiver functions and surface-wave dispersion curves, *Journal of Asian Earth Sciences*, 195, 104378. <https://doi.org/10.1016/j.jseaes.2020.104378>
8. **Ku, C. S.**, Y. T. Kuo, W. A. Chao, S. H. You, B. S. Huang, Y. G. Chen, F. W. Taylor, and Y. M. Wu, (2018), A First-Layered Crustal Velocity Model for the Western Solomon Islands: Inversion of the Measured Group Velocity of Surface Waves Using Ambient Noise, *Seismol. Res. Lett.*, 89(6), 2274-2283. <https://doi.org/10.1785/0220180126>
9. Kuo, Y. T., **C. S. Ku**, Y. G. Chen, Y. Wang, Y. N. N. Lin, R. Y. Chuang, Y. J. Hsu, F. W. Taylor, B. S. Huang, and H. Tung, (2016), Characteristics on fault coupling along the Solomon megathrust based on GPS observations from 2011 to 2014, *Geophys. Res. Lett.*, 43, 8519-8526. <https://doi.org/10.1002/2016GL070188>