LIN Yi

Research Associate Professor

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Education

2014–2020	Ph.D in Geophysics, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China. Advisor: Jinhai ZHANG
2010–2014	B.E. in Geophysics, Jilin University, Changchun, China

Employment

2024–2025	Visiting Scientist, Università degli Studi di Padova, Padova, Italy
2022–present	Research Associate Professor, Chengdu University of Technology, Chengdu, China
2020–2022	Postdoctoral Research Associate, Peking University, Beijing, China, Advisor: Li ZHAO

Research Interests

- Observational seismology
- Signal Processing in Seismology
- Imaging of seismic Anisotropy
- Structure, evolution, and deformation of continental lithosphere

Professional Societies & Activities

- Member of the European Geosciences Union (since 2025)
- Life member of the Chinese Geosciences Union (since 2024)
- Member of the American Geophysical Union (since 2020)
- Member of the Society of Exploration Geophysicists (since 2017)

Received Funds

- **Collaborator**. National Natural Science Foundation of China. No. 42430303. Deep mechanism of differential activities between strong earthquakes and volcanoes beneath the Shanxi Rift. Project period: 01/2025-12/2029. Funding: 2,290,000 RMB.
- **Principal Investigator**. National Natural Science Foundation of China. No. 42404065. Crust-mantle deformation beneath the northeastern margin of the Tibet Plateau revealed by full-wave anisotropy tomography. Project period: 01/2025-12/2027. Funding: 300,000 RMB.

- **Principal Investigator** . China Postdoctoral Science Foundation. No. 2020M680205. Automatic measurement of SKS splitting intensity and its application in anisotropy tomography in Sichuan-Yunnan region. Project period: 11/2020-09/2022. Funding: 80,000 RMB.

Peer-reviewed Publications

*corresponding author, #co-first author.

7. **Lin, Y.**, & Zhao, L.. (2024). Upper-mantle anisotropy in the southeastern margin of Tibetan Plateau revealed by fullwave SKS splitting intensity tomography. *Journal of Geophysical Research: Solid Earth*, 129(3), e2023JB027629. doi:10.1029/2023JB027629

6. **Lin, Y.**, & Zhang, J. (2022). A multispectral denoising framework for seismic random noise attenuation. *IEEE Transactions on Geoscience and Remote Sensing*, *60*, 1–17. doi:10.1109/TGRS.2020.3047633

5. Li, C., **Lin, Y.**, Lv, W., & Zhang, J. (2021). Eliminating above-surface diffractions from GPR data using iterative Stolt migration. *Geophysics*, *86*(1), H1–H11. doi:10.1190/geo2019-0796.1

4. Zhang, J., Zhou, B., Lin, Y., Zhu, M., Song, H., Dong, Z., Gao, Y., Di, K., Yang, W., Lin, H., Yang, J., Liu, E., Wang, L., **Lin, Y.**, Li, C., Yue, Z., Yao, Z., & Ouyang, Z. (2021). Lunar regolith and substructure at Chang'E-4 landing site in South Pole-Aitken basin. *Nature Astronomy*, *5*, 25–30. doi:10.1038/s41550-020-1197-x

3. **Lin, Y.**, & Zhang, J. (2020). Progressive denoising of seismic data via robust noise estimation in dual domains. *Geophysics*, *85*(1), V99–V118. doi:10.1190/geo2019-0010.1

2. **Lin, Y.**, Hao, J., Miao, Z., Zhang, J., & Yang, W. (2020). NanoSIMS image enhancement by reducing random noise using low-rank method. *Surface and Interface Analysis*, *52*, 240–248. doi:10.1002/sia.6736

1. Sun, W., Fu, L., Wei, W., **Lin, Y.**, & Tang, Q. (2018). The crust-mantle transition structures beneath eastern China. *Chinese Journal of Geophysics*, *61*(3), 845–855. doi:10.6038/cjg2018L0551 [in Chinese]

Conference Abstracts

10. **Lin, Y.**, Faccenda, M., Zhao, L.. (2025). Full-wave anisotropy tomography for the upper mantle of Alaska. In EGU Annual Meeting Abstracts.

9. Suwen, J., **Lin, Y.**, Zhao, L., Chen, Q.F. (2023). Full-wave anisotropy imaging of the upper mantle in Northeast China. In CGU Annual Meeting Abstracts.

8. Suwen, J., **Lin, Y.**, Zhao, L., Chen, Q.F. (2023). Tomography of upper mantle anisotropy in Northeast China based on SKS splitting intensity. In 5th Young Scientist Forum of Planetary Science, Sanya, China.

7. Suwen, J., **Lin, Y.**, Zhao, L., Chen, Q.F. (2023). Full-wave anisotropy tomography for the upper mantle of Northeast China using SKS splitting intensities. In EGU (European Geosciences Union) General Assembly 2023.

6. Suwen, J., **Lin, Y.**, Zhao, L., Chen, Q.F. (2022). Full-wave anisotropic tomography in Northeast China based on splitting intensity. In CGU Annual Meeting Abstracts.

5. **Lin, Y.**, & Zhao, L.. (2022). Full-waveform multi-scale imaging of upper mantle anisotropy in Sichuan-Yunnan region. In CGU Annual Meeting Abstracts.
4. **Lin, Y.**, & Zhao, L.. (2021). Full-wave upper-mantle anisotropy tomography for the southeastern margin of the Tibetan Plateau using SKS splitting intensity data. Abstract DI45C-0034 virtually presented at 2021 AGU Fall Meeting.
3. **Lin, Y.**, & Zhao, L.. (2021). Full wave multiscale tomography for the upper mantle anisotropy under Sichuan Yunnan, China. Abstract virtually presented at 37th General Assembly of the European Seismological Commission.
2. Li, C., **Lin, Y.**, Lv, W., & Zhang, J.. (2020). A ground-penetrating radar surface diffracted wave separation based on iterative Stolt migration method. In CGU Annual Meeting Abstracts.
1. **Lin, Y.**, Sun, W., Wei, W., Fu, L.-Y. (2015). One-way wave approximation of wave equation in polar coordinates. In CGU (Chinese Geosciences Union) Annual Meeting Abstracts.

Teaching Experience

Chengdu University of Technology

- Lecturer, “Numerical Analysis” (2023S, 2024S)
- Lecturer, “Progress in Geophysics” (2023S, 2024S)
- Lecturer, “Seismology” (2023F, 2024F)
- Lecturer, “Earth Intelligent Exploration Methods and Techniques” (2023F, 2024F)

Peking University

- Teaching assistant, “Introductory Machine Learning for Earth Scientists” (2020F)
- Teaching assistant, “Big Data Applications in Earth Sciences” (2020F)

Students Supervision

Graduate Advisees

- Jiaxin HE (MS enrolled in 2025)
- Hongxin LI (MS enrolled in 2025)
- Dianping XIONG (MS enrolled in 2025)

Undergraduate Research Advisees

Current undergraduate advisees:

- Silin CHEN (Enrolled in 2025) - research advisor, 2025-present
- Peijun LIU (Enrolled in 2025) - research advisor, 2025-present
- Xunyi XIE (Enrolled in 2024) - research advisor, 2025-present
- Simin CHEN (Enrolled in 2023) - research advisor, 2024-present

- Yirui YANG (Enrolled in 2023)- research advisor, 2024-present
- Chenxu YIN (Enrolled in 2023)- research advisor, 2024-present
- Wuchenyu YANG (Enrolled in 2023)- research advisor, 2024-present
- Lu YANG (Enrolled in 2023)- research advisor, 2024-present
- Huaxuan LI (Enrolled in 2022)- research advisor,2024–Present
- Junyu WU (Enrolled in 2022)- research advisor, 2024–Present
- Jun-Ang CHEN (Enrolled in 2022)- research advisor, 2023–present
- Hantao ZHANG (Enrolled in 2022)- research advisor, 2024–Present
- Ling ZHANG (Enrolled in 2022)- research advisor, 2024–Present

Past undergraduate advisees:

- Junkai YAN - research advisor, 2024/12–2025/06, now a MS student at SUSTech
- Zhuoyu MO - research advisor, 2024/12–2025/06, now a MS student at China University of Geosciences (Beijing)
- Shuyang SHAO - research advisor, 2024/12–2025/06
- Ao LI - research advisor, 2023/09–2024/06, now a MS student at Southern University of Science and Technology (SUSTech)
- Ying PENG - research advisor, 2022/12–2023/06, now a MS student at China University of Geosciences (Wuhan)
- Yongteng GONG - research advisor, 2022/12–2023/06

Services

Reviewers

- Journal of Geophysical Research: Solid Earth
- Geophysics
- Frontiers in Earth Science