Dr. Yi Lin

Curriculum Vitæ

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No. 1, East Third Road, Erxianqiao,
Chenghua District, Chengdu, China
College of Geophysics
Chengdu University of Technology

Professional Appointments

2024–present **Visiting Scientist**, Università degli Studi di Padova, Padova, Italy

2022–present **Associate Research Professor**, Chengdu University of Technology, Chengdu, China

2020–2022 **Postdoctoral Researcher**, Peking University, Beijing, China.
Advisor: Prof. Li ZHAO

Education

2014–2020 **PhD in Geophysics**, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China.
Supervisor: Prof. Jinhai ZHANG

2010–2014 **BE in Geophysics**, Jilin University, Changchun, China.

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
- Life member of the Chinese Geophsical Society
- Member of the American Geophysical Union
- Member of the Society of Exploration Geophysicists

Grants and Fellowships

2025–2029 **Deep mechanism of differential activities between strong earthquakes and volcanoes beneath the Shanxi Rift**.
National Natural Science Foundation of China. No. 42430303. Chen, Q.F. (PI); Liu, Q.; Lin, Y; An, Y. Funding: 2,290,000 RMB.

2025–2027 **Crust-mantle deformation beneath the northeastern margin of the Tibet Plateau revealed by full-wave anisotropy tomography**.
National Natural Science Foundation of China. No. 42404065. Lin, Y (PI). Funding: 300,000 RMB.

2024–2025 **Visiting Scholar Fellowship**.
State Scholarship Fund. Lin, Y (PI). Funding: 16,200 EUR.

2022–2025 **Scientific Research Start-Up Fund of Chengdu University of Technology**.
Chengdu University of Technology. Lin, Y (PI). Funding: 75,000 RMB.

2020–2022 **Automatic measurement of SKS splitting intensity and its application in anisotropy tomography in Sichuan-Yunnan region**.
China Postdoctoral Science Foundation. No. 2020M680205. Lin, Y (PI). Funding: 80,000 RMB.

Honors and Awards

2024 **Outstanding Demonstration Class Participant in the 31st Sichuan Province New Faculty Professional Skills Training Program**.

2022 **Recipient of the Everest Talent Program at Chengdu University of Technology**.

2015 **Outstanding Student of University of Chinese Academy of Sciences**.

2012 **Outstanding Student of Jilin University**.

First-class Scholarship of Jilin University.

Publications

*corresponding author, #co-first author.

Peer-reviewed Papers

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, Vienna, Austria.

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, Zhuhai, China.

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, Vienna, Austria.

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, online.

5. Lin, Y, & Zhao, L.(2022). Full-waveform multi-scale imaging of upper mantle anisotropy in Sichuan-Yunnan region. In CGU Annual Meeting Abstracts, online.

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, Chongqing, China.

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, Beijing, China.

Teaching Experience

Chengdu University of Technology

- Instructor, “Numerical Analysis” (2023S, 2024S)
- Instructor, “Progress in Geophysics” (2023S, 2024S)
- Instructor, “Seismology” (2023F, 2024F)
- Instructor, “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

- Wuxueying QIU(M.S. expected 2026), Co-advised with Dr. Kai DENG

Undergraduate Research Advisees

Current undergraduate advisees:

- Jun-Ang CHEN - research advisor, 2023–present
- Simin CHEN - research advisor, 2024–Present
- Huaxuan LI - research advisor,2024–Present
- Yirui YANG - research advisor, 2024–Present
- Chenxu YIN - research advisor, 2024–Present
- Wuchenyu YANG - research advisor, 2024–Present
- Junyu WU - research advisor, 2024–Present
- Lu YANG - research advisor, 2024–Present
- Hantao ZHANG - research advisor, 2024–Present
- Ling ZHANG - research advisor, 2024–Present
- Junkai YAN - research advisor, 2024–Present
- Zhuoyu MO - research advisor, 2024–Present
- Shuyang SHAO - research advisor, 2024–Present

Past undergraduate advisees:

- 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

- Geophysics
- Frontiers in Earth Science