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Professional Employment

Assistant, Associate, & Full Research Geophysicist	UCLA	1992 – present
Program Director, Geophysics Program	NSF/USA	2013 - 2015
Professor, School of Earth & Space Science, Peking Univ., China		2008 – 2013
Distinguished Research Fellow, Institute of Geology, China Earthquake Administration, China		2001 - 2008
Post-doctorate Scholar	UCLA	1991 – 1992

Education

Ph.D. in Geophysics and Space Physics	UCLA	1991
M.S. in Geophysics and Space Physics	UCLA	1985
B.S. in Geophysics	Peking Univ.	1982

Professional Services

Chair, Sub-commission 3.2 on Crustal Deformation, International Association of Geodesy		2015-2017
Board Member, Global Geodetic Observing System, International Association of Geodesy		2015-2017
Board member, Advisory Committee on Science and Technology, China Earthquake Administration		2006-2016
Guest Editor, Bull. Seismol. Soc. Am. special issue on “2008 Great Wenchuan earthquake”		2008-2010
Science Director, Crustal Deformation Research Center, Crustal Motion Observation Network of China, CEA, China		2002-2008
Panel Member, Surface and Interior of Earth Program NASA/USA		Multiple years
Editorial Board member Chinese Journal of Geophysics Chinese Journal of Seismology Journal of Geodesy and Geodynamics Earthquake Geology		Multiple years

Honors

Fellow, International Association of Geodesy	2023
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Membership

American Geophysical Union	1985 – present
Seismological Society of America	1987 – present
Asia and Oceania Geophysical Society	2015 – present

Selected Publications (*corresponding author)

- Shen, Z.-K.***, and Z. Liu, GNSS and InSAR integration for 3-D crustal deformation in California and western Nevada. *J. Geophys. Res.: Solid Earth*, 130, e2024JB030888, 2025. <https://doi.org/10.1029/2024JB030888>.
- Li, M., Sun, J., Xue, L., **Shen, Z. K.**, Li, Y., Zhao, B., & Hu, L., Characterizing aquifer properties and groundwater storage at North China Plain using geodetic and hydrological measurements. *Water Resources Research*, 61(2), e2024WR037425, 2025.
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- Yue, H., Wang, K., Xue, L., **Shen, Z.**, & Sun, J., Postseismic process inversion using full time series of surface deformation: Full Time-series Inversion (FTI) theory and its application to the 2017 Sarpol-e Zahab earthquake. *J. Geophys. Res.*, e2021JB023317, 2022.
- Shen, Z. K.***, & Bird, P., Neokinema deformation model for the 2023 update to the US National Seismic Hazard model. *Seismological Research Letters*, 93(6), 3037-3052, 2022.
- Pollitz, F. F., Evans, E. L., Field, E. H., Hatem, A. E., Hearn, E. H., Johnson, K., Murray, J. R., Powers, P. M., **Shen, Z.-K.**, Wespestad, C., & Zeng, Y., Western US deformation models for the 2023 update to the US National Seismic Hazard Model. *Seismol. Res. Lett.*, 93(6), 3068-3086, 2022.
- Ge, W. P., **Shen, Z. K.***, Molnar, P., Wang, M., Zhang, P. Z., & Yuan, D. Y., GPS determined asymmetric deformation across central Altyn Tagh fault reveals rheological structure of northern Tibet. *J. Geophys. Res.*, e2022JB024216, 2022.
- Piña-Valdés, J., Socquet, A., Beauval, C., Doin, M. P., D'Agostino, N., & **Shen, Z. K.**, 3D GNSS velocity field sheds light on the deformation mechanisms in Europe: effects of the vertical crustal motion on the distribution of seismicity. *J. Geophys. Res.*, 127(6), e2021JB023451, 2022.
- Yue, H., **Shen, Z. K.**, Zhao, Z., Wang, T., Cao, B., Li, Z., Bao, X., Zhao, L., Song, X., Ge, Z., Ren, C., Lu, W., Zang, Y., Liu-Zeng, J., Wang, M., and Xue, L., Rupture process of the 2021 M7. 4 Maduo earthquake and implication for deformation mode of the Songpan-Ganzi terrane in Tibetan Plateau. *Proc. Nat. Acad. Sci.*, 119(23), e2116445119, 2022.
- Li, M., Sun, J., Xue, L., **Shen, Z.**, Zhao, B., and Hu, L., Characterization of Aquifer System and Groundwater Storage Change Due to South-to-North Water Diversion Project at Huairou Groundwater Reserve Site, Beijing, China, Using Geodetic and Hydrological Data. *Remote Sensing*, 14(15), 3549, 2022.

- Wang, M., Wang, F., Jiang, X., Tian, J., Li, Y., Sun, J., and **Shen, Z. K.**, GPS determined coseismic slip of the 2021 Mw 7.4 Maduo, China, earthquake and its tectonic implication. *Geophys. J. International*, 228(3), 2048-2055, 2022.
- Wang, M., **Shen, Z. K.***, Wang, Y. Z., Bürgmann, R., Wang, F., Zhang, P. Z., Liao, H., Zhang, R., Jiang, Z. S., Chen, W. T., Hao, M., Li, Y., Gu, T., tao, W., Wang, K., and Xue, L., Postseismic deformation of the 2008 Wenchuan earthquake illuminates lithospheric rheological structure and dynamics of eastern Tibet. *J. Geophys. Res. Solid Earth*, 126(9), e2021JB022399, 2021.
- Shen Z K***, Satellite geodesy applied to geodynamic and seismological studies in East Asia: a review, *Chinese J. Geophys.*, 64(10), 3514-3520, doi:10.6038/cjg2021P0541, 2021 (in Chinese).
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- Li, T., J. Sun, Y. Bao, Y. Zhan, **Z.-K. Shen**, X. Xu, and C. Lasserre, The 2019 Mw 5.8 Changning, China Earthquake: A Cascade Rupture of Fold-Accommodation Faults Induced by Fluid Injection, *Tectonophysics*, 2021.
- Wang M and **Shen Z**, Present day tectonic deformation in continental China: Thirty years of GPS observations and research, *Earthq. Res. China*, 36(4), 660-683, 2020 (in Chinese).
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- Wang, M., and **Shen, Z.-K.***, Present-day crustal deformation of continental China derived from GPS and its tectonic implications. *J. Geophys. Res.*, 125, e2019JB018774. <https://doi.org/10.1029/2019JB018774>, 2020.
- He P C, Wang M, Wang Q, and **Shen Z-K**, Rheological structure of lithosphere in northern Tibet inferred from postseismic deformation modeling of the 2001 Mw7.8 Kokoxili earthquake, *Chinese J. Geophys.*, 61(2), 531-544, doi:10.6038/cjg2018L0189, 2018 (in Chinese).
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- Wang, Y., **Z.-K. Shen***, and M. Wang, Block-like versus distributed crustal deformation around the northeastern Tibetan plateau, *J. Asian Earth Sci.*, 140, 31-47, 2017.
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- Wan, Y., **Z.-K. Shen***, R. Bürgmann, J. Sun, and M. Wang, Fault geometry and slip distribution of the 2008 Mw 7.9 Wenchuan, China earthquake, inferred from GPS and InSAR measurements, *Geophys. J. Int.*, 208(2), 748-766, 2016.
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