

# XIANGWEI GUO

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Curriculum Vitae

## EDUCATION

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University of Texas at Arlington, Arlington, TX, Earth & Environmental Sciences, PhD (Expected) 2026  
Central South University, Changsha, China, Geological Resources, ME 2019  
Central South University, Changsha, China, Geological Engineering, BE 2016

## RESEARCH & PROFESSIONAL APPOINTMENTS

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Graduate Research Assistant, University of Texas at Arlington, Arlington, TX, 2021 – Present  
Graduate Teaching Assistant, University of Texas at Arlington, Arlington, TX, 2022 – Present

## HONORS, AWARDS, & SMALL GRANTS

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Geological Society of America South Central Section Student Travel Grant, 2025  
NSF Student Research Support, Arizona LaserChron Center, University of Arizona, 2025  
Geological Society of America Cordilleran Section Student Travel Award, 2024  
Graduate School Travel Grant, University of Texas at Arlington, 2024  
Dean's Excellence Scholarship, University of Texas at Arlington, 2022  
Maverick Merit Fellowship, University of Texas at Arlington, 2021

## PEER-REVIEWED PUBLICATIONS (n=2 first author, n=10 total)

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- Guo, X.**, Fan, M., Ma, Y., Forman, S.L., Terry, D.O., Jr., and Feng, R., 2026, Eccentricity forcing of late Paleogene dust accumulation in the western United States across the Eocene–Oligocene Transition: *Global and Planetary Change*, <https://doi.org/10.1016/j.gloplacha.2026.105462>.
- Guo, X.**, Shen, Y., Moody, M.A.M., Forman, S.L., Terry, D.O., Jr., Feng, R., Gao, F., and Fan, M., 2026, Paleogene loess emerged before the Eocene–Oligocene transition in the western United States: *Geological Society of America Bulletin*, <https://doi.org/10.1130/B38159.1>.
- Pfeifer, L.S., Morrison, L., Trop, J.M., **Guo, X.**, and York, A.V., 2026, Source-to-sink particle size and shape analysis of suspended-load fluvial and eolian sediment along the Matanuska River, Alaska: Evaluating the role of glaciofluvial systems in the formation of loess deposits: *Journal of Sedimentary Research*, <https://doi.org/10.2110/jsr.2025.012>.
- Wu, S., Guo, Y., Guo, J., Li, Z., Li, J., Liu, C., Wang, X., and **Guo, X.**, 2020, Geochemistry and organic enrichment mechanism of shale in the Yanxi Formation (Middle Ordovician), central–south Hunan: *Journal of Central South University (Science and Technology)*, v. 51, no. 5, p. 1255–1267, <https://doi.org/10.11817/j.issn.1672-7207.2020.05.010>.
- Xiao, M., Guo, J., Jiao, P., **Guo, X.**, Wu, S., and Tan, H., 2019, Characteristics of Mesozoic and Cenozoic volcanic rocks and its logging identification in Dawa Oil Field of Liaohe Basin: *Journal of Central South University (Science and Technology)*, <https://doi.org/10.11817/j.issn.1672-7207.2019.04.020>.
- Xiao, M., Li, J., Guo, J., **Guo, X.**, Wang, X., Tan, H., and Liu, C., 2018, Application of T–R cycles in Dongpu sag: taking Shahejie stage of Paleogene as an example: *Journal of Central South University (Science and Technology)*, <https://doi.org/10.11817/j.issn.1672-7207.2018.12.014>.
- Jiao, P., Guo, J., Wang, X., Liu, C., **Guo, X.**, Huang, Y., and Liu, B., 2018, Characteristics and significance of petrological-mineralogical of lower Cambrian Niutitang formation shale gas reservoir in Northwest Hu-

nan: *Journal of Central South University (Science and Technology)*, <https://doi.org/10.11817/j.issn.1672-7207.2018.06.018>.

Jiao, P., Guo, J., Wang, X., Liu, C., and **Guo, X.**, 2018, Detrital zircon genesis and provenance tracing for reservoirs in the Lower Zhujiang Formation in Hanjiang–Lufeng Sag, Pearl River Mouth Basin: *Oil and Gas Geology*, <https://doi.org/10.11743/ogg20180204>.

Jiao, P., Guo, J., Zhang, X., Liu, C., **Guo, X.**, and Wang, X., 2017, Sedimentary evolution characteristics and sedimentary model of Paleogene Enping Formation, Lufeng area, Pearl River Mouth Basin: *Journal of China University of Petroleum (Natural Science Edition)*, <https://doi.org/10.3969/j.issn.1673-5005.2017.05.002>.

Guo, S., Guo, J., Liu, C., Zhang, L., **Guo, X.**, and Xiao, P., 2016, Shale gas accumulation potential of Lower Silurian Longmaxi formation in northern Guizhou: *Journal of Central South University (Science and Technology)*, <https://doi.org/10.11817/j.issn.1672-7207.2016.06.021>.

## **PUBLICATIONS IN PREPARATION**

**Guo, X.**, Fan, M., Forman, S.L., Terry, D.O., Jr., and Feng, R., in preparation, Decoding sediment recycling and provenance signal loss in late Paleogene mixed fluvial–loess systems of the western United States.

## **MENTORING**

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Mentor and Supervisor for Undergraduate Research (I Engage Mentoring Program)

Isabella Rios, University of Texas at Arlington, (2024)

Mary Ann Moody, University of Texas at Arlington, (2023)

## **TEACHING**

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Teaching Assistant, University of Texas at Arlington, 2022 – 2026

GEOL 3340 Geology for Engineers (2022, 2023, 2025, 2026)

GEOL 1301 Earth Systems (2023, 2024)

ENVR 4458 Machine Learning (2024)

## **PROFESSIONAL SERVICE**

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Peer reviewer for publications including *Palaeogeography, Palaeoclimatology, Palaeoecology* | *Journal of Asian Earth Sciences*

## **CONFERENCE PRESENTATIONS**

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**Guo, X.**, and Fan, M., (2025). Deciphering Orbital-Scale Climate Variability from Late Eocene–Early Oligocene Loess in the western USA. Geological Society of America Connects 2025 Meeting, San Antonio, TX. (Poster presentation).

Utterback, E.M., Feng, R., Fan, M., and **Guo, X.**, (2025). Climate and Vegetation Controls on Hydroclimate in Western North America during the Eocene-Oligocene Transition. Geological Society of America Connects 2025 Meeting, San Antonio, TX. (Poster presentation).

**Guo, X.**, and Fan, M., (2025). Differentiating late Paleogene White River Formation/Group sediments from volcanic ash in the western United States. UTA Discover 2025 Student Research Symposium, Arlington, TX. (Poster presentation).

**Guo, X.**, Forman, S.L., Terry, D.O., Jr., Feng, R., and Fan, M., (2024). Timing for the initiation of late Pale-

ogene loess deposition and associated environments in the western United States. Geological Society of America Connects 2024 Meeting, Anaheim, CA. (Poster presentation).

Moody, M.A., **Guo, X.**, Shen, Y., and Fan, M., (2024). Identification of loess from fluvial deposits at Flagstaff Rim, Wyoming, by machine learning. Geological Society of America Connects 2024 Meeting, Anaheim, CA. (Poster presentation).

**Guo, X.**, and Fan, M., (2024). Initiation of late Paleogene wind-transported loess in the western USA. UTA Discover 2024 Student Research Symposium, Arlington, TX. (Poster presentation).

## **PROFESSIONAL MEMBERSHIPS**

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Geological Society of America (GSA), Member, 2024 – Present