

Jinyu Zhang

Professional Summary

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Business address: The University of Texas at Austin
Bureau of Economic Geology
10100 Burnet Rd., Bldg. 130
Austin, TX 78758
Telephone: (512) 475-9537
E-mail address: jinyu.zhang@beg.utexas.edu

Professional Preparation

Academic Background

Ph.D., Jackson School of Geosciences, The University of Texas at Austin, February 2018

B.S., China University of Petroleum - Beijing, June 2011

Professional Appointments

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (June 2020-Present)

Awards

Awards and Honorary Societies

Editor's Choice, Basin Research, 2020

Robert Mitchum Award from the European Association of Geoscientists and Engineers, 2020

J. C. "Cam" Sproule Memorial Award, American Association of Petroleum Geologists, 2018

Presentations

Presentations

Salt-tectonic induced topographic controls on sediment routing in salt-bearing basins: a combined physical and numerical modeling approach: presented to Applied Geodynamics Laboratory Consortium Members, presented at Applied Geodynamics Laboratory Consortium Annual Meeting 2022, Austin, Tex., November 10-11, 2022.

Lithofacies segmentation in cores of Wilcox Group (Gulf of Mexico) and Spraberry Formation (Permian Basin) using U-net based convolutional neural networks: presented to SWS AAPG, presented at SWS AAPG annual meeting, Dallas, Tex., 2021.

Lithofacies Segmentation in Cores Using U-Net Based Convolutional Neural Networks With Uncertainty Feedback: presented to AAPG, presented at AAPG ACE 2021, Denver, Colo., 2021.

Depositional History and Shoreline Evolution of the Upper Wilcox Group and Lower Reklaw Formation, Northern Bee County, Texas: presented to AAPG Annual Meeting, Salt Lake City, Utah, May 20-23, 2018.

Publications

Peer Reviewed Authored Books

Ambrose, W. A., Zeng, H., Zhang, J., Olariu, M. I., Smith, D. C., and Clift, S. J., 2018, Depositional history and stratigraphic evolution of the Upper Wilcox Group and Reklaw Formation, northern Bee County, Texas: Austin, Texas, The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 284, 87 p.,

<http://doi.org/10.23867/RI0284D>.

Peer Reviewed Journal Articles

Zhang, J., Moscardelli, L., Dooley, T. P., and Schuba, N., 2023, Halokinetic induced topographic controls on sediment routing in salt-bearing basins: a combined physical and numerical modeling approach: *GSA Today*, v. 33, no. 6, p. 4-9, <http://doi.org/10.1130/GSATG561A.1>.

Olariu, C., Zhou, C., Steel, R., Zhang, Z., Yuan, X., Zhang, J., Chen, S., Cheng, D., and Kim, W., 2021, Controls on the stratal architecture of lacustrine delta successions in low-accommodation conditions: *Sedimentology*, v. 68, no. 5, p. 1941-1963, <http://doi.org/10.1111/sed.12838>.

Zhang, J., Ambrose, W. A., and Xie, W., 2021, Applying convolutional neural networks to identify lithofacies of large-n cores from the Permian Basin and Gulf of Mexico: the importance of the quantity and quality of training data: *Marine and Petroleum Geology*, v. 133, no. 105307, 6 p., <http://doi.org/10.1016/j.marpetgeo.2021.105307>.

Zhang, J., Flaig, P. P., Wartes, M., Aschoff, J., and Shuster, M., 2021, Integrating stratigraphic modelling, inversion analysis, and shelf-margin records to guide provenance analysis: an example from the Cretaceous Colville Basin, Arctic Alaska: *Basin Research*, v. 33, no. 3, p. 1954-1966, <http://doi.org/10.1111/bre.12543>.

Ambrose, W. A., Flaig, P., Zhang, J., Olariu, M. I., Denison, C., Demchuk, T., and O'Keefe, J., 2020, The Midway to Carrizo succession in the southeastern Texas Gulf Coast: evolution of a tidally influenced coastline: *GCAGS Journal*, v. 9, p. 41-75.

Zhang, J., Olariu, C., Steel, R., and Kim, W., 2020, Climatically controlled lacustrine clinoforms: theory and modelling results: *Basin Research*, v. 32, no. 2, p. 240-250, <http://doi.org/10.1111/bre.12383>.

Zhang, J., Sylvester, Z., and Covault, J., 2020, How do basin margins record long-term tectonic and climatic changes?: *Geology*, v. 48, no. 9, p. 893-897, <http://doi.org/10.1130/G47498.1>.

Zhang, J., Burgess, P., Granjeon, D., and Steel, R., 2019, Can sediment supply variations create sequences? Insights from stratigraphic forward modelling: *Basin Research*, v. 31, no. 2, p. 274-289, <http://doi.org/10.1111/bre.12320>.

Zhang, J., Kim, W., Olariu, C., and Steel, R., 2019, Accommodation- versus supply-dominated systems for sediment partitioning to deep water: *Geology*, v. 47, no. 5, p. 419-422, <http://doi.org/10.1130/G45730.1>.

Zhang, J., Rossi, V. M., Peng, Y., Steel, R., and Ambrose, W. A., 2019, Revisiting late Paleocene lower Wilcox deltas, Gulf of Mexico: river-dominated or mixed-process deltas?: *Sedimentary Geology*, v. 389, p. 1-12, <http://doi.org/10.1016/j.sedgeo.2019.05.007>.

Zhang, J., Covault, J., Pyrcz, M., Sharman, G. R., Carvajal, C., and Milliken, K., 2018, Quantifying sediment supply to continental margins: application to the Paleogene Wilcox Group, Gulf of Mexico: *AAPG Bulletin*, v. 102, no. 9, p. 1685-1702, <http://doi.org/10.1306/01081817308>.

Non Peer Reviewed Journal Articles

Ambrose, W. A., Zeng, H., Olariu, M. I., and Zhang, J., 2018, Depositional history and shoreline evolution of the upper Wilcox Group and lower Reklaw Formation, northern Bee County, Texas: *AAPG Search and Discovery*, no. 51502, 4 p.

Conference Proceedings

Moscardelli, L., Duffy, O. B., Zhang, J., Andrews, J. R., and Shuster, M., 2023, Subsurface H₂ storage: the role of understanding salt dome caprocks, AAPG ICE.

Published Reports

Ambrose, W. A., Rogers, H., Smith, D. C., Scanlon, B. R., Paine, J. G., Nicot, J.-P., Young, M.

H., Loucks, R. G., Hentz, T. F., Reed, R. M., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Flaig, P. P., Zhang, J., Hattori, K., Roberts, A., Zeng, H., DeJarnett, B. B., Radjef, E., Periwé, P., Peng, S., Duncan, I. J., Ren, B., Jensen, J., Male, F., Dommissé, R., Eastwood, R., Carr, D. L., Zhang, T., Ko, L., Larson, T., Lawton, T., Covault, J., Sylvester, Z., Goodman, E., Calle, A., Smye, K. G., Pelletier, I., Dunlap, D. B., Lambert, J., and Sivil, J. E., 2021, State of Texas Advanced Resource Recovery (STARR) 2018-2020 biennium report: The University of Texas at Austin, Bureau of Economic Geology 44 p.

Workshop Workbooks

Olariu, M. I., Ambrose, W. A., Olariu, C., Steel, R., and Zhang, J., 2018, Depositional history and architectural variability of the Wilcox Group in Texas: Bureau of Economic Geology and Austin Geological Society, Core Workshop Guidebook, no. SW0024.