

# 1-10 Prof. Tao Jiang

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## Education

B.A. Petroleum Geology, China University of Geosciences, Wuhan, China, 2000

Ph.D. Petroleum Geology, China University of Geosciences, Wuhan, China, 2005

## Work Experience

Present Position: Associate Professor, China University of Geosciences (Dec. 2008 - Present).

Visiting Scholar, Department of Earth Science, University of Hong Kong (2005.2-2005.3;2008.11-2008.12;2009.10-2009.12).

Postdoctoral Research Fellow, Marine Research Institute, University of Tokyo (2006.10-2008.9).

## Research Interests

Huge earthquake history in subduction zone; Deep-water sedimentary dynamics; Continental cracking and sedimentary basin formation.

## Major Publications

Tao Jiang, Licheng Cao, Xinong Xie, Zhenfeng Wang, Xushen Li, Yingzhao Zhang, Daojun Zhang, Hui Sun. 2015. Insights from heavy minerals and zircon U-Pb ages into the middle Miocene-Pliocene provenance evolution of the Yinggehai Basin, northwestern South China Sea. *Sedimentary Geology*, 327: 32-42.

Cao, Licheng, Jiang, Tao\*, Wang, Zhenfeng, Zhang, Yingzhao, Sun, Hui. 2015. Provenance of Upper Miocene sediments in the Yinggehai and Qiongdongnan basins, northwestern South China Sea: Evidence from REE, heavy minerals and zircon U-Pb ages. *Marine Geology*, 361: 136-146.

Jiang, T., Xie, X. N., Chen, H., et al. 2015. Geochemistry of Pore Water and Associated Reactions in the Diapiric Area of Yinggehai Basin, Northern South China Sea. *Journal of Earth Science*, 26(3): 306-316.

WANG Zhenfeng, JIANG Tao\*, ZHANG Daojun, WANG Yahui, ZUO Qianmei and HE Weijun. 2015. Evolution of deepwater sedimentary environments and its implication for hydrocarbon exploration in Qiongdongnan Basin, northwestern South China Sea. *Acta Oceanologica Sinica*, 34(4):1-10.

Gang Hu, Chao-Lu Yi, Jia-Fu, Zhang, Jin-Hua Liu, Tao Jiang. 2015. Luminescence dating of glacial deposits near the eastern Himalayan syntaxis using different grain-size fractions. *Quaternary Science Reviews*, 124: 124-144.

Jifeng Zhang, Jin-Liang Feng, Gang Hu, Junbo Wang, Yibo Yang, Yongchong Lin, Tao Jiang, Liping Zhu. 2015. Holocene proglacial loess in the Ranwu valley, southeastern Tibet, and its

- paleoclimatic implications. *Quaternary International*, 372: 9-22. doi:http://dx.do.org/10.1016/j.quaint.2014.04.016.
- Li, C F , Li, J B, Ding, WW, Franke, D, Yao, Y J, Shi, H S, Pang, X, Cao, Y, Lin, J, Kulhanek, D K, Williams, T, Bao, R, Briais, A, Brown, E A , Chen, Y F, Clift, P D, Colwell, F S, Dadd, K A, Hernandez-Almeida, I, Huang, XL, Hyun, S, Jiang, T, Koppers, AAP, Li, QY, Liu, CL, Liu, QS, Liu, ZF, Nagai, RH, Peleo-Alampay, A, Su, X, Sun, Z, Tejada, MLG,,Trinh, HS, Yeh, YC, Zhang, CL, Zhang, F, Zhang, GL , Zhao, XX. 2015. Seismic stratigraphy of the central South China Sea basin and implications for neotectonics. *Journal of Geophysical Research-Solid Earth*, 120: 1377-1399. doi: 10. 1002/2014JB011686.
- Jiang, T., Zhang, Y.Z., Tang, S.L., Zhang, D.J., Zuo, Q.M., Lin, W.R., Wang, Y.H., Sun, H., Wang, B. 2014. CFD simulation on the generation of turbidites in deepwater areas: a case study of turbidity current processes in Qiongdongnan Basin, northern South China Sea. *Acta Oceanologica Sinica*, 33(12):127-137. Doi:10.1007/s13131-014-0582-7
- Tao Jiang, Sulin Tang, Xinong Xie, Bo Wang. 2014. Numerical Simulation on Sedimentary Processes of Turbidity Current and its Applications on Reservoir Prediction in Qiongdongnan Basin, Northern South China Sea. In: Jianwen Yang eds. *Basins: Methods of Formation, Ongoing Developments and Emerging Challenges* Nova Science Publishers, Inc. New York. 27-48.
- Expedition 349 Scientists. 2014. South China Sea tectonics: Opening of the South China Sea and its implications for southeast Asian tectonics, climate, and deep mantle processes since the late Mesozoic. *International Ocean Discovery Program Preliminary Report*, 349: 1-109. doi:10.14379/iodp.pr.349.2014.
- Tao Jiang, Sulin Tang, Zhenfeng Wang, Xushen Li, Yingzhao Zhang, Jin Yan. 2014. CFD Simulation on Turbidity Current Processes of the Recovered Turbidites in Western Qiongdongnan Basin, South China Sea. *OCEANS14 MTS/IEEE*, Taipei, April 7 to 10, 2014.
- Chun-Feng Li, Xing Xu, Jian Lin, Zhen Sun, Jian Zhu, Yongjian Yao, Xixi Zhao, Qingsong Liu, Denise K. Kulhanek, Jian Wang, Taoran Song, Junfeng Zhao, Ning Qiu, Yongxian Guan, Zhiyuan Zhou, Trevor Williams, Rui Bao, Anne Briais, Elizabeth A. Brown, Yifeng Chen, Peter D. Clift, Frederick S. Colwell, Kelsie A. Dadd, Weiwei Ding, Iván Hernández Almeida, Xiao-Long Huang, Sangmin Hyun, Tao Jiang, Anthony A. P. Koppers, Qianyu Li, Chuanlian Liu, Zhifei Liu, Renata H. Nagai, Alyssa Peleo-Alampay, Xin Su, Maria Luisa G. Tejada, Hai Son Trinh, Yi-Ching Yeh, Chuanlun Zhang, Fan Zhang, Guo-Liang Zhang. 2014. Ages and magnetic structures of the South China Sea constrained by deep tow magnetic surveys and IODP Expedition 349. *Geochimistry, Geophysics, Geosystems*, 15: 4958-4983. doi:10.1002/2014GC005567.
- Gang Hu, Chao-Lu Yi, Jia-Fu Zhang, Jin-Hua, Tao Jiang, Xiang Qin. 2014. Optically stimulated luminescence dating of a moraine and a terrace in Laohugou valley, western Qilian Shan, northeastern Tibet. *Quaternary International*, 321: 37-49. DOI: 10. 1016/j. quaint. 2013.12.019
- Ming Su, Xinong Xie, Yuhong Xie, Zhenfeng Wang, Cheng Zhang, Tao Jiang, Yunlong He. 2014. The segmentations and the significances of the Central Canyon System in the Qiongdongnan Basin, northern South China Sea. *Journal of Asian Earth Sciences*, 79: 552-563.
- Su Ming, Zhang Cheng, Xie Xinong, Wang Zhenfeng, Jiang Tao, He Yunlong, Zhang Cuimei. Controlling factors on the submarine canyon system: a case study of the Central Canyon

- System in the Qiongdongnan Basin, northern South China Sea. *Science China: Earth Sciences*, 57(10): 2457-2468. doi:10.1007/s11430-014-4878-4.
- Tao Jiang, Xinong Xie, Zhenfeng Wang, Xushen Li, Yingzhao Zhang, Hui Sun. 2013. Seismic features and origin of sediment waves in the Qiongdongnan Basin, northern South China Sea. *Marine Geophysical Research*, 34(3): 281-294. doi 10.1007/s11001-013-9198-0.
- Xiangquan Li, Luke Fairweather, Shiguo Wu, Jianye Ren, Hongjie Zhang, Xianyuan Quan, Tao Jiang, Cheng Zhang, Ming Su, Yunlong He, Dawei Wang. 2013. Morphology, sedimentary features and evolution of a large palaeo submarine canyon in Qiongdongnan basin, Northern South China Sea. *Journal of Asian Earth Sciences*, 62: 685-696.
- Pan B L, Yi C L, Jiang T, Dong G C, Hu G, Jin Y. 2012. Holocene lake-level changes of Linggo Co in central Tibet. *Quaternary Geochronology*, 10:117-222. doi: 10. 1016 /j. quageo. 10: 117-122.2012.03.009.
- Ming Su, Xinong Xie, Junliang Li, Tao Jiang, et al. 2011. Gravity flow on slope and abyssal systems in the Qiongdongnan basin, Northern South China Sea. *Acta Geologica Sinica (English Edition)*: 85(1): 243-253.
- Tao Jiang, Xinong Xie, Jianye Ren, Cheng Zhang, Ming Su. 2009. Deepwater turbidites and their implications for hydrocarbon exploration in Qiongdongnan Basin, northern South China Sea. *Journal of Geochemical Exploration*, 101(1): 52.
- Tao Jiang, Shenghua Li, Chunfeng Li et al. 2009. Earthquake Recurrences Since Late Pleistocene in Nankai Trough of Kumano. *Earth Science Frontiers*, 16: 221.
- Tao Jiang, Shenghua Li, Chunfeng Li, Xinong Xie, Xin Su, Jianye Ren. 2009. Earthquake recurrences since late Pleistocene in Nankai Trough off Kumano: A preliminary result on Site C0006, IODP Exp.316. *Eos*, Vol. 90, Number 52, 29 December 2009, Fall Meet. Suppl., Abstract.
- Kinoshita, M., H. Tobin, J. Ashi, G. Kimura, S. Lallement, E. J. Screaton, D. Curewitz, H. Masago, K. T. Moe, and the Expedition314/315/316Scientists. 2009. Proceedings of the Integrated Drilling Program Expeditions, vol.314/315/ 316, doi:10.2204/iodp.proc.314315316.2009. OceanDrill. Program, College Station, Tex.
- E. Screaton, G. Kimura, D. Curewitz, G. Moore, F., F. Chester, O. Fabbri, C. Fergusson, F. Girault, D. Goldsby, R. Harris, F. Inagaki, T. Jiang, Y. Kitamura, M. Knuth, C. F. Li, L. C. Liljedahl, L. Louis, K. Milliken, U. Nicholson, N. Riedinger, A. Sakaguchi, E. Solomon, M. Strasser, X. Su, A. Tsutsumi, A. Yamaguchi, K. Ujice and X. Zhao. 2009. Interactions between deformation and fluids in the frontal thrust region of the NanTroSEIZE transect offshore the Kii Peninsula, Japan: Results from IODP Expedition 316 Sites C0006 and C0007. *Geochemistry Geophysics Geosystems*, 10: 1-14
- Sulin Tang, Tamaki Ura, Takeshi Nakatani, Blair Thornton, Tao Jiang. 2009. Estimation of the hydrodynamic coefficients of the complex-shaped autonomous underwater vehicle TUNA-SAND. *Journal of Marine Science and Technology*, 14: 373-386.
- Ming Su, Xinong Xie, Yunlong He, Tao Jiang, Cheng zhang, Shanshan Tian, Junliang Li. 2009. The gravity flow on a shelf-edge-slope-basin-floor complex in Qiongdongnan Basin, Northern South China Sea. *Earth Science Frontiers*, 16: 225.
- Xiangquan Li, Tao Jiang. 2009. 3D Seismic Technology Applications to the Analysis of Sedimentary Basins. *Earth Science Frontiers*, 16: 202.