

## CV of Dr. Zhonghui Liu

### 1. Academic Qualification

- 2004 Ph.D. Brown University, Department of Geological Sciences  
1996 B.Sc. University of Science & Technology, China (USTC)

### 2. Positions Held (Chronological Order)

- 2013-present Associate Professor, Dept. of Earth Sciences, University of Hong Kong  
2008-2012 Assistant Professor, Dept. of Earth Sciences, University of Hong Kong  
2006-2008 Flint Postdoc Fellow, Yale University  
2004-2006 Postdoc Research Associate, Brown University

### 3. Research Areas Related to Ocean Science, Technology and/or Policy

- Paleoceanography/Paleoclimatology
- Cenozoic climatic and environmental changes
- The evolution of Asian monsoon variability

### 4. Funded Research Projects as Principal Investigator (PI), Co-PI or Co-Investigator (Co-I) over the Past 5 Years (Maximum 5 Projects):

- 2019-2022, Sea surface temperature and ocean stratification status during the middle Miocene Climatic Optimum. PI, HK\$ 502,444, GRF (17305019)
- 2017-2019, Investigation of hydroclimatic changes at the marginal Asian Monsoon area over the last millennium. PI, HK\$ 540,824, GRF (17325516).
- 2014-2018, Reconstructing detailed sea surface temperature and atmospheric CO<sub>2</sub> changes across the Eocene-Oligocene Transition. PI, HK\$ 1,010,045, GRF (17303614).
- 2016- 2011, Marine Carbon Sequestration: Multiscale regulation and Response to the Global Change. PI and participant, ¥ 850,000. The National Key Research and Development Program of China (2016YFA0601204), China Ministry of Science and Technology.

## 5. Five Key Publications over the Past 5 Years (\*Corresponding author)

- Liu, J., Tian, J.\*, Liu, Z.\*, Herbert, T. D., Fedorov, A. V. & Lyle, M. (2019) Eastern Equatorial Pacific cold tongue evolution since the late Miocene linked to extratropical climate. *Science Advances*, 5, eaau6060, DOI: 10.1126/sciadv.aau6060.
- Zhang, Y., Zhou, X., He, Y., Jiang, Y., Liu, Y., Xie, Z., Sun, L.\* & Liu, Z.\* (2019) Persistent intensification of the Kuroshio Current during late Holocene cool intervals. *Earth and Planetary Science Letters*, 506, 15-22.
- Liu, Z.\*, He, Y., Jiang, Y., Wang, H., Liu, W., Bohaty, S. M. & Wilson, P. A.\* (2018) Transient temperature asymmetry between hemispheres in the Palaeogene Atlantic Ocean. *Nature Geoscience*, 11, 656-660.
- Zhang, Y., Pagani, M. & Liu, Z. (2014) A 12-million-year temperature history of the tropical Pacific Ocean. *Science*, 344(6179), 84-87.
- Liu, W.\*, Liu, Z.\*, An, Z., Sun, J., Chang, H., Wang, N., Dong, J. & Wang, H. (2014) Late Miocene Episodic Lakes in the Arid Tarim Basin, Western China. *Proceedings of the National Academy of Sciences of the United States of America*, 111(46), 16292-16296.

## 6. Awards and Recognition

- 2013. Liu Tungsheng Prize for Young Earth Scientists.
- 2014. Outstanding Young Researcher Award, HKU (2012/13).
- 2010-2015, 2018, 2019. HKU Top 1% scholar.
- Associate Editor of *Journal of Asian Earth Sciences*, 3/2016 to present.
- Associate Editor of *Quaternary International*, 8/2015-6/2018.
- Member of Editorial Advisory Board of *Quaternary Science Reviews*, 8/2019 to present.
- Council member of Chinese Association of Quaternary Research (CHIQUA) since 2013.