

Academic Staff Resume

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Academic Qualification:

Ph.D. in Macau University of Science and Technology, 2015.09-2019.04
Master in Capital Normal University, 2009.09-2012.06
Bachelor in Jilin University, 2005.09-2009.06

Research Area

Planetary science
Comparative Planetology
Planetary Geology

Working Experience

2019.07-Now, Macau University of Science and Technology, Postdoctoral Researcher
2019.04-2019.06, University of California, Los Angeles (UCLA), Visiting Scholar
2012.07-2014.08, Beijing Oriental TITAN Technology CO., LTD, Technical Support Engineer

Research Projects

2018.05-Now, Comparative study of basin evolution of paleo-basins in Terra Sirenum on Mars and the Qaidam Basin: Implications for astrobiology study (121/2017/A3)
2015.09-2018.05, Analog study of typical geomorphology of Qaidam basin and Mars (107/2014/A3)

Academic Publication

Journal Articles:

Yanan Dang, Feng Zhang, Jiannan Zhao, Jiang Wang, Yi Xu, Ting Huang, Long Xiao (2020). Diverse Polygonal Patterned Grounds in the Northern Eridania Basin, Mars: Possible Origins and Implications. *Journal of Geophysical Research: Planets*. Under review.

Xu Meng, Yi Xu, Long Xiao, **Yanan Dang**, Peimin Zhu, Chi Pui Tang, Xiaoping Zhang, Bing Liu, Sheng Gou, Zongyu Yue (2020). Ground-penetrating radar measurements of subsurface structures of lacustrine sediments in the Qaidam Basin (NW China): Possible implications for future in-situ radar experiments on Mars. *Icarus*, 338 (2020), 113576.

Dang, Y.N., Xiao, L., Xu, Y., Zhang, F., Huang, J., Wang, J., ... & Yue, Z. (2018). The Polygonal Surface Structures in the Dalangtan Playa, Qaidam Basin, NW China: Controlling Factors for Their Formation and Implications for Analogous Martian Landforms. *Journal of Geophysical Research: Planets*, 123(7), 1910-1933.

Xiao, L., Wang, J., **Dang, Y.**, Cheng, Z., Huang, T., Zhao, J., ... & Komatsu, G. (2017). A new terrestrial analogue site for Mars research: the Qaidam Basin, Tibetan Plateau (NW China). *Earth-science reviews*, 164, 84-101.

Books & Book Chapters:

Yanan Dang, Long Xiao, and Yi Xu (2020). Polygons, In L. Xiao (ed.), *Mars on Earth: The Qaidam Basin Case*, World Scientific Publishing Company: 199-247. In press.

Long Xiao, Jiang Wang, **Yanan Dang**, Jiannan Zhao, and Mingjie Zhang (2020). The Qaidam Basin, NE Tibetan Plateau, In L. Xiao (ed.), *Mars on Earth: The Qaidam Basin Case*, World Scientific Publishing Company: 71-109. In press.

Conference Papers:

Y.N. Dang, L. Xiao, Y. Xu, F. Zhang. Stages of Development and Growth of Salt Polygonal Surface Structures in Qaidam Basin, Western China, and Their Counterparts on Mars. 50th Lunar and Planetary Science Conference, 2019. Abstract #1504.

Y.N. Dang, L. Xiao and Y. Xu. Insight Into the Sequence of Processes Responsible for the Growth of Polygonal Surface Structures in Qaidam Basin, Western China. International Symposium on Lunar and Planetary Science, 2018. Abstract #111.

Y.N. Dang, L. Xiao, Y. Xu, J. Wang, and G. Komatsu. Field investigation of the Dalangtan playa in western China's Qaidam basin as an analogue to polygonal surface structures on Mars. 48th Lunar and Planetary Science Conference, 2017. Abstract #1797.

Y.N. Dang, L. Xiao, Y. Xu, and J. Wang. Analogue study of polygonal surface structures in the Qaidam Basin and on Mars. 9th International Conference for Aeolian Research, 2016. Abstract #0100.

Y.N. Dang, L. Xiao, Y. Xu and B. Wang. Morphology and Composition of Polygon Surface Structures in the Qaidam Basin and Implications for Mars. International Symposium on Lunar and Planetary Science, 2016.