

CV of Dr Lishan Ran

1. Academic Qualification

- PhD (2013), National University of Singapore, Singapore
- Master (2009), Chinese Academy of Sciences, Beijing, China
- BSc (2006), Lanzhou University, Lanzhou, China

2. Positions Held (Chronological Order)

- Assistant Professor, Department of Geography, The University of Hong Kong (07/2016-present)
- Research Assistant, Department of Geography, National University of Singapore (08/2013-06/2016)

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

- Dr Ran is a physical geographer and his research interests reside in water quality & pollution, carbon cycle, and greenhouse gas emissions from waterbodies.

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

- Riverine Carbon Cycle and Greenhouse Gas Emissions from the Dongjiang River Basin. RGC GRF. PI. 08/2019-07/2022. Amount: HK\$558,272.
- Riverine Carbon Export and Carbon Dioxide (CO₂) Evasion from River Catchments on the Loess Plateau. (PI). RGC ECS. PI. 07/2018-06/2021. Amount: HK\$379,652.
- Riverine Carbon Cycle and Its Response to Environmental Factors. (PI). National Natural Science Foundation of China. PI. 01/2019-12/2021. Amount: HK\$288,000.
- Impact of Floods on Riverine Carbon Export in the Dongjiang River Basin. (PI). Hui Oi Chow Trust Fund. PI. 01/2019-12/2020. Amount: HK\$100,000.
- Riverine Carbon Cycle in the Wuding River Catchment on the Loess Plateau. (PI). Seed Funding Programme of HKU. PI. 01/2017-12/2018. Amount: HK\$150,000.

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

- Tian M., X. Yang, **L. Ran**, Y. Su, L. Li, R. Yu, Z. Hu, X. Lu. 2019. Impact of land cover types on riverine CO₂ outgassing in the Yellow River Source Region. *Water*, 11, 2243; doi:10.3390/w11112243.
- Yang X., X. Lu, **L. Ran**, P. Tarolli. 2019. Geomorphometric assessment of the impacts of dam construction on river disconnectivity and flow regulation in the Yangtze basin. *Sustainability*, 11, 3427, doi:10.3390/su11123427.
- **Ran L.**, M. Tian, N. Fang, S. Wang, X. Lu, X. Yang, F. Cho. 2018. Riverine carbon export in the arid to semiarid Wuding River catchment on the Chinese Loess Plateau. *Biogeosciences*, 15, 3857-3871.

- Zhou Y., H.Q. Huang, **L. Ran**, C. Shi, T. Su. 2018. Hydrological controls on the evolution of the Yellow River Delta: An evaluation of the relationship since the Xiaolangdi Reservoir became fully operational. *Hydrological Processes*, 32, 3633-3649.
- **Ran L.**, X. Lu, N. Fang, X. Yang. 2018. Effective soil erosion control represents a significant net carbon sequestration. *Scientific Reports*, 8:1201, doi: 10.1038/s41598-018-30497-4.
- Park J., O.K. Nayna, M.S. Begum, E. Chea, J. Hartmann, R.G. Keil, S. Kumar, X. Lu, **L. Ran**, J.E. Richey, V. V.S.S. Sarma, S.M. Tareq, D.T. Xuan, and R. Yu. 2018. Anthropogenic perturbations to carbon fluxes in Asian river systems – concepts, emerging trends, and research challenges. *Biogeosciences*, 15, 3049-3069.
- **Ran L.**, L. Li, M. Tian, X. Yang, R. Yu, J. Zhao, L. Wang, X.X. Lu. 2017. Riverine CO₂ emissions in the Wuding River catchment on the Loess Plateau: Environmental controls and dam impoundment impact. *Journal of Geophysical Research: Biogeosciences*, 122, 1439-1455.
- **Ran L.**, X. X. Lu, S. Liu. 2017. Dynamics of riverine CO₂ in the Yangtze River fluvial network and their implications for carbon evasion. *Biogeosciences*, 14, 2183-2198.
- Liu S., X. Lu, X. Xia, X. Yang, **L. Ran**. 2017. Hydrological and geomorphological control on CO₂ outgassing from low-gradient large rivers: An example of the Yangtze River system. *Journal of Hydrology*, 550, 26-41.
- Liu, S., X. Lu, X. Xia, S. Zhang, **L. Ran**, X. Yang, T. Liu. 2016. Dynamic biogeochemical controls on river pCO₂ and recent changes under aggravating river impoundment: an example of the subtropical Yangtze River. *Global Biogeochemical Cycles*, 30, 880-897.

6. Awards and Recognition

- CYWater Young Scientist Best Paper Award, AGU Meeting, San Francisco (12/2014)
- Hydrological Synthesis Summer Institute Fellowship, UBC Canada (06-08/2010)