

PI's CV

Name: Lu Xi Xi

Current position and past employment history

- 2013--, Professor, National University of Singapore (NUS)
- 2006-2012, Associate Professor, National University of Singapore
- 2000-2005, Assistant Professor, National University of Singapore
- 1999-2001, NSERC Post-doctoral Fellow, Univ. of Western Ontario

Academic qualifications

- 1994 – 1998, PhD, Department of Geography, University of Durham, UK
- 1987 – 1990, MSc, Institute of Soil Sciences, Chinese Academy of Sciences
- 1980 – 1984, BSc, Soil and Water Conservation, Beijing Forestry University

Research awards

- 2023, AAG (American Association of Geographers) G.K. Gilbert Award for Excellence in Geomorphological Research.
- 2016, World Association for Sedimentation and Erosion Research Outstanding contribution to sedimentation studies

Recent Research Grants as a PI

- 2024-2027, Impacts of Climate Change on Soil Erosion and Sediment Delivery in the headwater regions of the large Asian rivers, MOE Tier 1, S\$178,000.
- 2021-2024, Riverine sediment load responses to climate change in High Mountain Asia, MOE Tier 2, S\$642,840.

List of 10 publications (*PhD student or postdoc fellow, ✉corresponding author) : I have published over 250 international refereed papers in prestigious journals such as *Science*, *Science Advances*, *Nature Geosciences*, and *Nature Reviews Earth & Environment*.

Samuel DX Chua*, Yuheng Yang, G. Mathias Kondolf, Chantha Oeurng, Ty Sok, Shurong Zhang, **Lu Xixi**✉ Restoring Can restoring water and sediment fluxes across a mega-dam cascade alleviate a sinking delta? *Science Advances* Vol 10, Issue 18. DOI: [10.1126/sciadv.adn9731](https://doi.org/10.1126/sciadv.adn9731)

Ting Zhang*, Dongfeng Li, Amy East, D.E Walling, J. Best, **Lu XX**. 2023. Shifted sediment transport regimes by climate change and amplified hydrological variability in cryosphere-fed rivers. *Science Advances*, eadi5019.

Ting Zhang*, Dongfeng Li, Amy E East, Desmond E Walling, Stuart Lane, Irina Overeem, Achim A Beylich, Michèle Koppes, Xixi Lu. 2022. [Warming-driven erosion and sediment transport in cold regions](#). *Nature Reviews Earth & Environment* 3 (12), 832-851 (cover paper)

Li, D*, **Lu, X.X**, Walling, D. E., Zhang, T., Steiner, J. F., Wasson, R. J., ... & Bolch, T. (2022). High Mountain Asia hydropower systems threatened by climate-driven landscape instability. *Nature Geoscience*, 15(7), 520-530.-11 (cover paper)

D Li*, **XX Lu**✉, Overeem, I., Walling, D. E., Syvitski, J., Kettner, A. J., ... & Zhang, T. (2021). Exceptional increases in fluvial sediment fluxes in a warmer and wetter High Mountain Asia. *Science*, 374(6567), 599-603.

Lu Xi Xi, SDX Chua.2021. [River Discharge and Water Level Changes in the Mekong River: Droughts in an Era of Mega-Dams](#). *Hydrological Processes*, e14265.

XX Lu, C Oeurng, TPQ Le, DT Thuy. 2015. Sediment budget as affected by construction of a sequence of dams in the lower Red River, Viet Nam. *Geomorphology* 248, 125-133.

XX Lu, M Kumm, C Oeurng. 2014.Reappraisal of sediment dynamics in the Lower Mekong River, Cambodia. *Earth Surface Processes and Landforms* 39, 1855-1865.

XX Lu, S Li, M Kumm, R Padawangi, JJ Wang. 2014. Observed changes in the water flow at Chiang Saen in the lower Mekong: Impacts of Chinese dams? *Quaternary International* 336, 145-157.

XX Lu, LS Ran, S Liu, T Jiang, SR Zhang, JJ Wang. 2013. Sediment loads response to climate change: A preliminary study of eight large Chinese rivers. *International Journal of Sediment Research* 28 (1), 1-14.

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