



SHORT BIO

Following a Bachelor's degree in Applied Physics at Inner Mongolia University in 2019, I earned a Ph.D. in Earth and Planetary Sciences from Macau University of Science and Technology (MUST) in 2024, under the supervision of Prof. Xiaojun Xu.

In November 2024, I accepted a post-doctoral position at the State Key Laboratory of Lunar and Planetary Sciences, MUST, continuing to collaborate with Prof. Xu. My research interests include generalized Ohm's law, reconnection rate, and energy conversion in multi-ion magnetic reconnection processes.

Postdoc

Lei Luo



PhD: Earth and Planetary Sciences
– MUST (2024)

Masters: Earth and Planetary Sciences
– MUST (2021)

Bachelor: Applied Physics
– Inner Mongolia University (2019)

KEY PUBLICATIONS *(first author)*

Luo, L., Xu, X., Song, L., Zhou, M., Zhou, Z., Man, H., Wang, X., Zhang, Y., He, P., Yi S., Li, H. (2024). The Current Tension Electric Field in the Generalized Ohm's Law. *Geophysical Research Letters*, 51(4), e2023GL107191.

Luo, L., Xu, X., Zhang, Y., Zhou, Z., Chang, Q., Xu, Q., Wang, X., He, P., Yi, S., Li, H. (2023). The three-fluid generalized Ohm's law: A theoretical study. *Physics of Fluids*, 35(1).

PROFESSIONAL EXPERIENCE

Nov. 2024 – present– *Macau University of Science and Technology, Macao (China) – Post Doctor*