

Research Field: Space Weather and Space Environment Focused Field: ENERGETIC PARTICLES, ATMOSPHERE

SHORT BIO

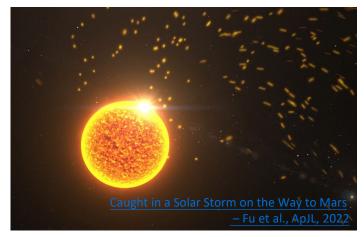
I am now an assistant professor at the Macau University of Science and Technology (MUST). I received my Bachelor of Atmospheric Science at the Nanjing University of Information Science & Technology (NUIST) in June 2013, and then I was offered a PhD project in Space Physics jointly supervised by Prof. Jiang Yong at the NUIST and Prof. Li Gang at the University of Alabama in Huntsville (UAH).

After obtaining my doctorate in Space Physics in June 2019, I accepted a post-doctoral position at the State Key Laboratory of Lunar and Planetary Sciences of MUST. My postdoctoral supervisor is Prof. Zhang Xiaoping.

I am interested in many problems in solar physics and space plasma physics. My recent work mainly focuses on: 1) Solar modulation of cosmic rays, 2) Effects of solar energetic events on the global electric circuit, and 3) Responses of near-space atmosphere during geomagnetic storms.

Asst. Prof.
Shuai Fu (傅帥)





KEY PUBLICATIONS (*Corresponding author)

- Li, J., **Zhang***, **X.**, **Fu***, **S.**, et al., 2025. Equatorial Anomalous Responses of the Mesosphere and Lower Thermosphere Temperature to Super Geomagnetic Storms Observed by TIMED/SABER. *Geophysical Research Letters*
- Peng, J., **Fu*, S.,** et al., 2025. Variations in the Surface Atmospheric Electric Field on the Qinghai–Tibet Plateau: Observations at China's Gar Station. **Atmosphere**
- Li, G., **Fu. S.,** et al., 2025. Magnetopause Location and Solar Wind Turbulence Level During FDs and Their Impacts on the Global Electric Circuit. *Space Weather*
- Fu, S., et al., 2023. Measurements of anomalous cosmic rays from the WIND spacecraft over 1994—2021. Monthly Notices of the Royal Astronomical Society
- Fu, S., et al., 2022. First report of a solar energetic particle event observed by China's Tianwen-1 mission in transit to Mars. *The Astrophysical Journal Letters* [Highlighted by AAS Nova]
- Fu, S., et al., 2021. Comparison of anomalous and galactic cosmic-ray oxygen at 1 au during 1997–2020. *The Astrophysical Journal Letters*
- Fu, S., et al., 2021. Variations of the galactic cosmic rays in the recent solar cycles. *The Astrophysical Journal Supplement Series*
- Fu, S., et al., 2020. An ACE/CRIS-observation-based galactic cosmic rays heavy nuclei spectra model II. *Science China Physics, Mechanics & Astronomy*
- **Fu, S.,** et al., 2020. Effects of solar activity on ionospheric ion upflow during geomagnetic quiet Periods: DMSP observations. *Open Astronomy*
- Fu, S., et al., 2019. Effect of star rotation rates on the characteristics of energetic particle events. *The Astrophysical Journal Letters*





Research Field: ENERGETIC PARTICLES IN THE HELIOSPHERE Focused Field: COSMIC RAYS; SOLAR ENERGETIC PARTICLES

PROFESSIONAL EXPERIENCE

08/2022 – Present – Macau University of Science and Technology, Macau, China – Assistant Professor

06/2020 – 06/2022 – Macau University of Science and Technology, Macau, China – Post Doctoral

11/2016 - 01/2018 - University of Alabama in Huntsville (UAH), Huntsville, Alabama, USA - Visiting scholar

GRANTS

National Natural Science Foundation of China (NSFC), 2025.1~2027.12, PI

Science and Technology Development Fund (FDTC), 2024.1~2026.1, PI

Natural Science Foundation of Guangdong Province-General Programme, 2024.1~2026.12, PI

Faculty Research Grants, 2023.7~2024.7, PI

Specialized Research Fund for State Key Laboratory of Solar Activity and Space Weather, 2025.1~2025.12, PI

FDCT Funding Scheme for Postdoctoral Researchers of Higher Education Institutions, 2020.6~2022.6, PI

