



# Research Field: Space Physics

## Focused Field: MHD simulation, Mars, Venus, Cosmic rays

### SHORT BIO

Following a Bachelor's degree in Flight Vehicle Design at Beihang University (Buaa, 2015), I got a Phd degree majored in space physics at Beihang University in 2021.

I accepted a post- doctoral position in 2022 at State Key Laboratory of Lunar and Planetary Sciences , Macau University of Science and Technology. My research interests are simulation of the interaction of the solar wind with unmagnetized planets (Venus and Mars) as well as the cosmic rays.

### Postdoc

## Yun Li



Major: Space Physics  
– Beihang University

Degree: Doctor of Engineering  
– Beihang University

### KEY PUBLICATIONS *(first author)*

Guokan Li, Haoyu Lu, **Yun Li** (corr\*), et al. 2023. Martian dayside magnetic topology and structures of the cross-terminator magnetic loops - multispecies magnetohydrodynamic simulations. Monthly Notices of the Royal Astronomical Society (Accepted).

Yun Li, Haoyu Lu, Jinbin Cao, et al. 2021. Three-dimensional multispecies simulation of the solar wind interaction with Mars under different interplanetary magnetic field orientations. Astrophysical Journal., 921, 139.

Yun Li, Haoyu Lu, 2019. Evolution of Kelvin-Helmholtz instability on the Venusian ionopause with the influence of Hall effect. Astrophysical Journal, 875, 47.

### PROFESSIONAL EXPERIENCE

January **2022** – **present** – *Macau University of Science and Technology, Macao (China)* – *Post Doctor*  
March **2021** – **present** – *Beihang University, Beijing,* – *Post Doctor*

### GRANTS

➤ NSFC Grants No. 42074214, 41874199, and 41674176- Participant