

SHORT BIO

Following a Bachelor's degree in Electronic Information in 2012, I began my space science research as a Master/PhD student supervised by Prof. Zhengyu Zhao and Prof. Binbin Ni, at the Laboratory of Magnetospheric Space Weather and Effects (LMSWE) in Wuhan University, Wuhan, China.

After obtaining a PhD degree in Space Physics, I accepted a post-doctoral position in 2018 at Institute of Space Science and Applied Technology (ISSAT) in Harbin Institute of Technology, Shenzhen (HITSZ) and investigated the dynamics of Earth's radiation belt particles and plasma waves.

In 2020 I was offered a position as an assistant professor at the SKL of Lunar and Planetary Sciences in M.U.S.T in Macao, China. By using both traditional research approaches and machine learning algorithms, I have been studying the temporal evolutions of the energetic electrons and wave-particle interactions in Earth's radiation belt. I am also teaching a number of post-graduate courses.

Asst. Prof.

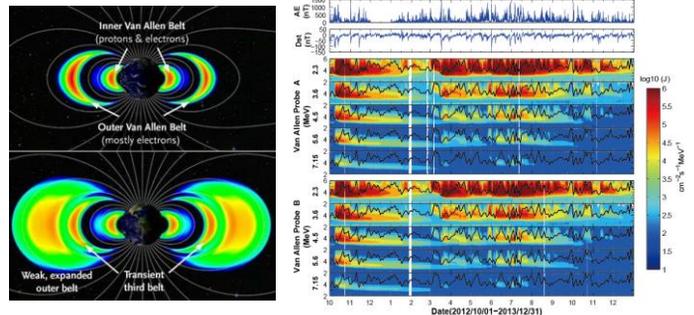
Zhengyang
Zou



PhD: SPACE PHYSICS – Wuhan University (WHU)

Masters: SPACE PHYSICS – Wuhan University (WHU)

Degree: ELECTRONIC INFORMATION – Wuhan Textile University



<https://www.researchgate.net/profile/Zhengyang-Zou/research>

KEY PUBLICATIONS (first author)

Zou, Z., Shprits, Y., Ni, B. et al. 2020.

An Artificial Neural Network Model of Electron Fluxes in The Earth's Central Plasma Sheet: A THEMIS Survey.
***Astrophys. Space. Sci.*, 365, 100.**

Zou, Z., Zuo, P., Ni, B. et al. 2020.

Two-step dropouts of radiation belt electron phase space density induced by a magnetic cloud event,
***Astrophys. J. Lett.*, 895(1), L24.**

Zou, Z., Zuo, P., Ni, B. et al. 2019.

Wave Normal Angle Distribution of Fast Magnetosonic Waves: A Survey of Van Allen Probes EMFISIS Observations. ***J. Geophys. Res: Space Phys.*, 124, 5663-5674.**

PROFESSIONAL EXPERIENCE

Ongoing – 2020 – Macau University of Science and Technology, Macao (China) – Asst. Prof.

2019 – 2018 – Harbin Institute of Technology, Shenzhen, Shenzhen (China) – Post Doctoral

GRANTS

Guangdong Basic and Applied Basic Research Foundation– 2019-2022 – Co-Investigator

Acceleration of Solar Energetic Particle near the solar corona.

NSFC– 2017-2020 – Co-Investigator

Spatiotemporal distributions of radiation belt relativistic electron phase space density based on multiple stellite observations.

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