Zijin Zhang

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Education

- Graduate student in Planetary Science, *University of California, Los Angeles*, 2022-present
- B.Sc. in Space Physics, *University of Science and Technology of China*, 2018-2022

Research Interests

- Solar wind and wave-particle interactions
- Computational plasma physics and application of data science in space science and heliophysics

Publications

1. **Zhang, Z.**, Artemyev, A., Mourenas, D., Angelopoulos, V., Zhang, X.-J., & Kasahara, S. (2024). Relativistic electron flux decay and recovery: Relative roles of EMIC waves, whistler-mode waves, and plasmasheet injections. *JGR: Space Physics* [submitted]. DOI: 10.13140/RG.2.2.25908.01920
2. Margot, J.-L., Li, M. G., Pinchuk, ... **Zhang, Z.**. (2023). A search for technosignatures around 11680 stars with the green bank telescope at 1.15–1.73 GHz. *Astronomical Journal*, 166(5), 206. DOI: 10.3847/1538-3881/acfda4
3. **Zhang, Z.**, & Tao, X. (2022). The kinetic simulation of the interaction between the Moon's magnetic anomalies and the solar wind. *Undergraduate Thesis* [University of Science and Technology of China]. DOI: 10.13140/RG.2.2.15841.68968

1 Presentations

1. **Zhang, Z.**, Artemyev, A., Angelopoulos, V., & Chen, S. (2023, December 14). Solar wind discontinuities spatial evolution and energetic ion scattering. *American Geophysical Union*. DOI: 10.13140/RG.2.2.12905.67682
2. **Zhang, Z.**, Artemyev, A., Mourenas, D., Angelopoulos, V., & Zhang, X.-J. (2023, December 12). Relativistic electron flux decay and recovery: Relative roles of EMIC waves, whistler-mode waves, and plasmasheet injections. *American Geophysical Union*. DOI: 10.13140/RG.2.2.33038.33607

Research Experience

- Graduate Student Researcher, *Experimental Space Physics Group*, 2022 - present
  Study energetic ion scattering by solar wind discontinuities. Project website.
- Undergraduate Research Assistant, *Artificial Intelligence of Things Lab*, 2021 - 2022
  Implemented a distributed system to monitor edge devices and automate IT deployment and management.