

Tong Shi

Research Interests

- Solar coronal mass ejections observation and modeling
- Data driven simulation with SWMF/Awsom using vector magnetogram
- Spectroscopic synthesis and diagnostics

Education

- 2016 – Climate and Space Sciences and Engineering, University of Michigan
PhD candidate
- 2016 – 2019 Climate and Space Sciences and Engineering, University of Michigan
Master of Science
- 2011 – 2015 Kuang Yaming Honors School, Nanjing University
B.S. in Astronomy

Publications

- **Shi, T.**, Landi, E., Manchester, W.: 2019, Nonequilibrium Ionization Effects on Coronal Plasma Diagnostics and Elemental Abundance Measurements. *Astrophys. J.* 882, 154 ([link](#))
- **Shi, T.**, Wang, Y. K., Wan, L., Cheng, X., Ding, M. D., and Zhang, J.: 2015, Predicting the Arrival Time of Coronal Mass Ejections with the Graduated Cylindrical Shell and Drag Force Model. *Astrophys. J.* 806, 271 ([link](#))
- Su, W., et al.: 2020, Analyses of residual accelerations for TianQin based on the global MHD simulation. *Class. Quantum Grav.* 37 185017 ([link](#))
- Wan, L., Cheng, X., **Shi, T.**: 2016, The Formation and Early Evolution of a Coronal Mass Ejection and its Associated Shock Wave on 2014 January 8, *Astrophys. J.* 826, 174 ([link](#))

Awards and Honors

- 06/2017 NASA Earth and Space Science Fellowship, Heliophysics
- 04/2016 Second Prize, undergraduate thesis, Jiangsu Province
- 07/2015 Outstanding Award, undergraduate thesis
- 02/2014 Mathematical Contest in Modeling Honorable Mention
- 12/2012 University Physics Competition Silver Medal Team
- 08/2012 Chinese Undergraduate Physicists' Tournament Second Prize

Activities

- 12/2019 Poster, AGU Fall Meeting, Washington, DC
- 07/2019 Poster, SHINE conference, Boulder, CO
- 09/2018 Talk and poster, NSF PREEVENTS meeting, Washington, DC
- 07/2018 Poster, SHINE conference, Orlando, FL
- 12/2017 Poster, AGU Fall Meeting, New Orleans, LA
- 11/2017 Talk, Second Workshop on Vector Synoptic Maps for Modeling, Boulder, CO
- 08/2017 UCAR Heliophysics summer school, Boulder, CO
- 07/2017 Poster presentation, SHINE conference, Saint-Sauveur, QC
- 12/2015 Poster presentation, American Geophysical Union (AGU) Fall Meeting