XIANTONG WANG

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EDUCATION

- **University of Michigan - Ann Arbor** Now
  Ph.D. Candidate, Climate and Space Sciences and Engineering & Scientific Computing
  Thesis Topic (TBD): *Numerical and Statistical Methods in Space Weather Modeling*
  Advisor: Gábor Tóth, Ph.D.
- **University of Michigan - Ann Arbor** 2019.8
  M.S., Climate and Space Sciences and Engineering
- **University of Science and Technology of China (USTC)** 2017.6
  B.S., Geophysics
  Thesis: *Electron temperature anisotropy in asymmetric magnetic reconnection*
  Advisor: Quanming Lu, Ph.D.

PUBLICATIONS

Citations (September 2021): Google Scholar: 40 Web of Science: 29 Scopus: 26

Peer Reviewed:

1. X. Wang, Y. Chen, G. Toth, W. B. Manchester, T. I. Gombosi, A. O. Hero, Z. Jiao, H. Sun, M. Jin, and Y. Liu. Predicting Solar Flares with Machine Learning: Investigating Solar Cycle Dependence. *Astrophysical Journal*, 895(1):3, May 2020
2. Z. Jiao, H. Sun, X. Wang, W. Manchester, T. Gombosi, A. Hero, and Y. Chen. Solar flare intensity prediction with machine learning models. *Space Weather*, 18(7):e2020SW002440, 2020
3. Y. Chen, W. B. Manchester, A. O. Hero, G. Toth, B. DuFumier, T. Zhou, X. Wang, H. Zhu, Z. Sun, and T. I. Gombosi. Identifying solar flare precursors using time series of sdo/hmi images and sharp parameters. *Space Weather*, 17(10):1404–1426, 2019

Preprint:

1. (*Submitted*) S. Kasapis, L. Zhao, Y. Chen, X. Wang, M. Bobra, and T. I. Gombosi. Interpretable machine learning to forecast sep events for solar cycle 23. *Earth and Space Science Open Archive*, page 18, 2021

PRESENTATIONS

1. Geomagnetic storm event simulation using a global MHD with adaptively embedded particle-in-cell (MHD-AEPIC) model, *GEM Workshop* 2021
2. Geomagnetic simulation using MHD with Adaptively Embedded PIC model, *AGU Fall Meeting* 2020
3. (**Oral**) Predicting Solar Flares using Time Sequence Based Machine Learning Models, *AGU Fall Meeting* 2019
4. Parametric study of magnetospheric sawtooth events using a kinetic tail reconnection model embedded into a global MHD simulation, *AGU Fall Meeting* 2018

AWARDS AND SCHOLARSHIPS

1. Departmental Assistantship, Department of Climate and Space Sciences and Engineering, U of M 2017
2. Outstanding Graduate Scholarship, USTC 2017
3. Zhaojiuzhang Scholarship, USTC 2016
4. Laurel Scholarship, USTC 2015
5. Outstanding Student Scholarship (Grade 2), USTC 2014