

Curriculum Vitae

Name: Jie Zhang

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Professional Preparation:

- Post-Doc Naval Research Lab, 2000-2002
- Ph.D. Astrophysics, University of Maryland, 1999
- M.S. Astrophysics, Purple Mountain Obs., Chinese Academy of Science, 1993
- B.S. Astronomy, Nanjing University, China, 1990

Professional Experience:

- **2014 Sep – now:** Full professor, George Mason University
- **2009 Sep-2014 Aug:** Associate Professor, George Mason University
- **2006 Oct-2008 Oct:** Director, Space Weather Lab at George Mason University.
- **2005 Sep-2009 Aug:** Assistant Professor, George Mason University
- **2000 Jan-2005 Aug:** Assistant research scientist, George Mason University.
- **1997 Aug-1999 Dec:** Graduate research assistant, University of Maryland
- **1995 Sep-1997 Aug:** Graduate teaching assistant, University of Maryland.
- **1993 Jul-1995 Jul:** Research associate, Purple Mountain Observatory, Chinese Academy of Science.

Ph.D. Thesis

"A Study of the Sun's Corona Using EUV and Radio Observations", 1999, Supervisor:
Kundu, M.R., University of Maryland

Honors and Awards

- 2013: George Mason University College of Science Publication Award
- 2012: Sigma Xi Honor Society
- 2011: Kavli Fellow
- 2008: National Science Foundation CAREER Award, USA
- 1999: Phi Kappa Phi honor Society

Professional Membership:

- International Astronomical Union
- American Astronomical Society
- Solar Physics Division of American Astronomical Society
- American Geophysics Union

Doctoral Graduate Students Directed: Oscar Olmedo (2011, PHD), Watanachak Poomvises (2011, PHD), Valbona Kunkel (2012, PHD), Xin Cheng (2012, PHD), Kai Liu (2013, PHD), Georgios Chintzoglou (2016, PHD), Phillip Hess (2016, PHD), Nishu Karna (2016, PHD), Zhenjun Zhou (2017, PHD)

Publications:

As of 2019, Dr. Jie Zhang has authored and co-authored about 100 refereed research papers. He also published two co-edited book, and served as a guest editor in two topical issues in the Journal of Solar Physics

Professional Services:

- NCAR Non-NSF Proposal Review Panel (2015-2018)
- Chair of SCOSTEP VarSITI ISEST program (2013-2018)
- Vice Chair of COSPAR Sub-Commission D2/E3 (2012-2019)
- Organizing international scientific meetings at the role of SOC chair and/or committee member
- Organizing special sessions in many conferences at the role of session chair.
- Guest-editor of topic issues in journals
- Co-founded SWL (Space Weather Lab) and developed space weather program at GMU
- Member of AAS/SPD Education and Public Outreach Committee, 2006-2010
- Served as a reviewer for many NSF, NASA and international programs
- Severed as a referee for many scientific journals, including Nature Communications, ApJ, Solar physics, JGR, GRL

Research Interests

I work in the research areas of solar physics, heliospheric physics and space weather sciences. In particular, I am interested in understanding the physical mechanisms of solar flares and coronal mass ejections (CMEs), the two most energetic phenomena occurring on the Sun that may affect the environment throughout the entire solar system, including the space near the Earth, Moon and Mars. I am also interested in studying the propagation of coronal mass ejections across the integrated Sun-Earth system with the aim of providing accurate prediction of space weather. My research work not only addresses fundamental science problems related with plasma, magnetism and particles, but also help society needs on mitigating adverse space weather effects on human space exploration, robotic satellite operation, communication and navigation.