

Curriculum Vitae

Name: Jie Zhang

Address:

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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:

- **2009 Aug – present:** Associate Professor, George Mason University
- **2006 Oct-2008 Oct:** Director, Space Weather Lab at George Mason University.
- **2005 Aug-2009 Aug:** Assistant Professor, George Mason University
- **2000 Jun-2005 Aug:** Assistant research scientist, George Mason University.
- **2000 Jan-2002 Jun:** Post-doctoral researcher at Naval Research Laboratory
- **1997 Aug-1999 Dec:** Graduate research assistant, University of Maryland
- **1995 Aug-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
- 2013: Guest Professor at University of Science and Technology of China
- 2012: Xiyuan Chair Professor at Nanjing University, China
- 2012: Sigma Xi Honor Society
- 2011: Kavli Fellow
- 2009: Outstanding Young Scholar Award (Overseas) from Chinese National Science Foundation
- 2008: National Science Foundation CAREER Award
- 1999: Phi Kappa Phi honor Society
- 1997: Solar Physics Division of American Astronomical Society Studentship Award

Professional Membership:

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

Graduate Students Directed: Oscar Olmedo (2011, PHD), Watanachak Poomvises (2011, PHD), Valbona Kunkel (2012, PHD), Xin Cheng (2012, PHD), Kai Liu (2013, PHD), Katherine Baldwin (2011, MS), Brian Briggs (2012, MS)

Research Grants:

Since year 2002, Dr. Jie Zhang has successfully obtained fifteen research grants. These grants are mainly sponsored by National Science Foundation (NSF) and National Aeronautic and Space Administration (NASA), including the prestigious Faculty Early Career Development Program (CAREER) award from NSF. Among these grants, I am the principle investigator of 14 grants and co-investigator of one grant.

Publications:

I have authored and co-authored 60 refereed papers, and 18 of them are of first-author.

According to the Web of Knowledge Citation Report, the citation number of my papers is 1352, with an average citation per item of 27.04 (based on 50 results found by WOK). My h-index is 19.

Professional Services:

- Chair of SCOSTEP ISEST program (2013-2018)
- Vice Chair of COSPAR Sub-Commission D2/E3 (2012-2016)
- Hosting scientific meetings at GMU
- Organizing international scientific meetings at the role of chair and committee member
- Organizing sessions in conferences at the role of 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 other programs
- Served as a referee for many scientific journals, including ApJ, Solar physics, JGR, GRL

Research Interests

In addition to teaching and training, I am dedicated to research work in the areas of solar physics and space weather. 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 but affecting the environment throughout the entire solar system, including the space near the Earth, Moon and Mars. I am also interested in characterizing the propagation of these eruptions across the integrated Sun-Earth system with the aim of providing accurate prediction of space weather. My research work not only addresses fundamental physics problems, such as plasma instability, magnetic reconnection and magnetism in general, but also help societal needs of mitigating adverse space weather effects on human space exploration, robotic satellite operation, communication and navigation.

(Last updated: September 2013)