



Curriculum Vitae

Zhenjun Zhou

Personal Information

Gender: Male

Date of Birth: 04/22/ 1987

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Address: Room 365-405, East Campus USTC, Hefei Anhui, 230026, China

Objective

PhD in physics

Research Interest

Solar physics, Interplanetary Physics

Education

2006-2010 Dept. of School of Earth and Space Sciences, University of Science and Technology of China
2010-present Solar-TERrestrial Physics, University of Science and Technology of China

- ◆ Bachelor of Science, July 2010
- ◆ Master of Science, July 2013, Expected
- ◆ Overall GPA : 83/100 (3.32/4.0)

Publications

2012

1, Jiajia Liu, **Zhenjun Zhou**, Yuming Wang, et al

“Slow Magneto-acoustic Waves Observed above Quiet-Sun Region in a Dark Cavity”, The Astrophysical Journal Letters

2, Chenglong Shen, Yuming Wang, Shui Wang, Ying Liu, Rui Liu, Angelos Vourlidas, Bin Miao, Pinzhong Ye, Jiajia Liu, and **Zhenjun Zhou**

“Super-elastic Collision of Large-scale Magnetized Plasmoids in The Heliosphere”, Nature Physics

3, Yuming Wang, **Zhenjun Zhou**, Jiajia Liu, Chenglong Shen, Wangshui

“Dynamic processes of interplanetary coronal mass ejections” Submitted by Science In China Press

Honors and Awards

2012 Outstanding Award for the graduate Research Program

2011 Outstanding Award for the experimental classes TA

2010 Recommended for admission to the USTC postgraduate

2006 Ranked 205th among more than 384,000 participants of universities entrance exam, Jiangxi

Language Skills

English: Toefl -- 71 (another Toefl test will be attended at 24/11)

GRE – new Verbal 143 Quantitative 165

Chinese: native language

Research Experience

- ◆ 2009.07 - 2009.09 Research Program: the research of the Magnetic pressure and thermal pressure of the Interplanetary magnetotail Advisor: Prof. Wang Chi (National Space center, CAS)

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- ◆ **2010.02 - 2011.10** **Research Program: Magnetic cloud new model-fitted parameters with force-free cylindrically assumptions** **Advisor: Prof. Yuming Wang**
 - We have investigated geometry and the state of motion of a set (N=64) of well chosen WIND MCs that occurred over the period from early 1998 to 2005
 - Researched in-depth about the morphology and dynamics process when the MC passing through L1 point
 - Compare our model with the classical model-leeping's model and obtained good results
 - Came up with a new method of model-fitted parameters with force-free cylindrically assumptions
 - The work has been done and the result will be reported recently
 - ◆ **2011.10 - 2012.06** **Research Program: Slow Magneto-acoustic Waves Observed above Quiet-Sun Region in a Dark Cavity** **Advisor: Prof. Yuming Wang**
 - Slow Magneto-acoustic waves at SEP 25th 2011 is found in my routine SDO DATA observation.
 - Our study implies that
 - (1) Slow MA waves not only appear above active regions or coronal holes, but also exist above quiet-Sun regions, and the fact that they were rarely found above quiet-Sun region before SDO mission is probably simply due to the instrument limitation
 - (2) Slow MA wave train in this study is not sufficient for local coronal heating.
 - ◆ **2012.06 - present** **Project: the Thermal Evolution of Solar Flare Viewed by EVE DATA** **Advisor: Prof. Yuming Wang**
 - Motivated by the paper -Thermal Evolution and Radiative Output of Solar Flares Observed by the EUV Variability Experiment (EVE) ,cooperated with Chamberlin, I begin to study the different types of Thermal Evolution of the solar flare viewed by EVE
 - Helped by Chamberlin, I get all the irradiance only along with the quality factor used to determine isothermal emission lines
 - I plan to compare this work with the classification of flare produced by Kailiu and more work need to do

Technical Skills

Programming Language:	C/C++, IDL, Fortran, Shell
Softwares:	SSW, Office, Endnote, Origin
Data processing:	Local Data ACE -MFI,SWE; WIND-MFI,SWE,WAV
	Remote sensing Data SDO -AIA,EVE,HMI;STEREO-EUVI,COR1,COR2 H1,H2;SOHO-LASCO,C2,C3

Extra-curriculum Activities

Campus Activity

2012 Served as a **theoretical classes TA**
2010-2011 Served as an **experimental classes TA**
2009-2011 Served as a **Moderator** of the school official BBS

Sports

2008-2012 Participated the football club of graduate union of ESS and served as the main striker
2009 Participated the Table Tennis Competition and won runner-up
2006 Participated the Association of Scientific Expedition of USTC

Running and Hiking

2010,2011 Participated the Yangzhou Marathon twice
2012.01 Participated the Xiamen Marathon
2012.11 Prepare to participate the Beijing Marathon
2008.10 Ride to Nanjing from Hefei in one day at the distance of 240KM
2007-2012 Backpack around nearly half of China
<http://home.ustc.edu.cn/~zjzhou/mytracks.jpg>

My Main page

Welcome to visit my main page, due to the limited time only the Chinese version surpport
<http://home.ustc.edu.cn/~zjzhou/>