ZIHAO YANG 杨子浩

PERSONAL INFORMATION

DATE OF BIRTH:	March 11, 1996
PLACE OF BIRTH:	Huangchuan, Henan Province, China
CITIZENSHIP:	Chinese
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EDUCATION

2019-now Ph.D. student in Space Physics, School of Earth and Space Sciences, Peking University (PKU), Beijing, China

2015-2019 B. Sc. majoring in Space Science, School of Earth and Space Sciences, Peking University (PKU), Beijing, China

2014-2015 Huangchuan No. 1 High School, Henan, China

2011-2014 Huangchuan High School, Henan, China

RESEARCH EXPERIENCE

1. FEB. 2017 - JAN. 2018 Undergraduate research at **School of Earth and Space Sciences, Peking University, China**
   Topic: Solar Tornadoes Observed with the Interface Region imaging Spectrograph
   Supervisor: Prof. Hui Tian

2. JUL. 2018 - SEPT. 2018 Summer research at **High Altitude Observatory (HAO), National Center for Atmospheric Research (NCAR), Boulder, CO, USA**
   Topic: Searching for high frequency waves in solar corona & Mapping coronal magnetic field through Alfvenic wave observations
   Supervisor: Dr. Steven Tomcyzk & Dr. Scott McIntosh

3. FEB. 2019 – JUN. 2019 Research for thesis of Bachelor's degree at **School of Earth and Space Sciences, Peking University, China**
   Topic: Mapping Coronal Magnetic Field Through Alfvenic Wave Observations (continued)
   Supervisor: Prof. Hui Tian

4. JUL. 2019 – AUG. 2019 Summer research at **Mullard Space Science Laboratory (MSSL), University College London (UCL), United Kingdom**

Topic: Jets and Loop Brightening Observed by Hinode/EIS, Hinode/XRT and SDO/AIA
Supervisor: Prof. David Long & Dr. Deborah Baker

5. MAR. 2020-now PhD project at **School of Earth and Space Sciences, Peking University, China**
   Topic: Diagnosing the coronal magnetic field through observations of magnetic-field-induced transition (MIT) using Hinode/EIS
   Supervisor: Prof. Hui Tian

SCIENTIFIC PUBLICATIONS

First-author publications:

1. Yang, Z., Bethge, C., Tian, H., Tomczyk, S., et al. (2020). Global maps of the magnetic field in the solar corona. *Science*, **369**, 694-697
2. Yang, Z., Tian, H., Tomczyk, S., Morton, R., et al. (2020). Mapping the coronal magnetic field through magnetoseismology. *Sci China Tech Sci*, DOI: https://doi.org/10.1007/s11431-020-1706-9
3. Yang, Z., Tian, H., Peter, H., Su, Y., Samanta, T., Zhang, J., & Chen, Y. (2018). Two Solar Tornadoes Observed with the Interface Region Imaging Spectrograph. *The Astrophysical Journal*, **852(2)**, 79.

Other publications:

4. Chen, Y., Tian, H., Su, Y., Qu, Z., Deng, L., Jibben, P. R., Yang, Z.,… & Wang, L. (2018). Diagnosing the magnetic field structure of a coronal cavity observed during the 2017 total solar eclipse. The Astrophysical Journal, 856(1), 21.
5. Chen, Y., Tian, H., Xu, Z., Xiang, Y., Fang, Y., & Yang, Z. (2017). Ellerman bombs observed with the new vacuum solar telescope and the atmospheric imaging assembly onboard the solar dynamics observatory. Geoscience Letters, 4(1), 30.

AWARDS

JUN. 2019 Excellent Graduate, Peking University

MAY 2019 Excellent Project Award for Peking University Undergraduate Principal's Funding 2018, Peking University

DEC. 2018 Merit Student of Academic Year 2017-2018, Peking University

DEC. 2018 Leo KoGuan Scholarship (10, 000 RMB), Peking University

NOV. 2018 Excellent Undergraduate Research Program for the 2017-2018 Academic Year, School of Earth and Space Sciences, Peking University

NOV. 2018 Golden Award of SESS Academic Wishing Star for the 2017-2018 Academic Year, School of Earth and Space Sciences, Peking University

NOV. 2017 Golden Award of SESS Academic Wishing Star for the 2016-2017 Academic Year, School of Earth and Space Sciences, Peking University

NOV. 2013 High School Merit Student of Academic Year 2013-2014 of Henan Province, Department of Education, Henan Province

SCIENTIFIC CONFERENCES PRESENTATIONS

1. Yang, Z.: Two Solar Tornadoes Observed with the Interface Region Imaging Spectrograph,

Pasadena, COSPAR 2018, CA, USA, Jul. 14-22, 2018, **oral presentation**

2. Yang, Z.: Solar Tornadoes Observed with IRIS: Rotating Motion of Prominence Materials, CGU 2017, Beijing, Oct. 15-18, 2017, poster presentation
3. Yang, Z.: Solar Tornadoes Observed with IRIS, the 4th International Space Weather Conference (Chinese), Beijing, Aug. 1-4, 2017, **oral presentation** (in Chinese)

PROFESSIONAL ACTIVITIES

Peer reviewer for The Astrophysical Journal (during undergraduate study).

OTHER PROFESSIONAL EXPERIENCES

1. MAY 2017 Attending Solar EUV Spectroscopy Workshop (太阳极紫外光谱研讨会) hosted in Beijing, China
2. JUL. 1, 2018 Attending The 2nd Workshop on China Large Solar Coronagraph (我国大型日冕仪第二次研讨会) hosted in Weihai, Shandong, China
3. JUL. 2-4, 2018 Attending Solar Eruption Workshop (太阳爆发学术研讨会) hosted in Weihai, Shandong, China
4. SEPT. 22-24, 2018 Visiting University of Kiel (Christian-Albrechts-Universität zu Kiel) in Kiel, Germany and presented an oral report
5. SEPT. 25-28, 2018 Visiting Max-Planck Institute for Solar System Research in Göttingen, Germany and presented an oral report
6. OCT. 1, 2018 Visiting Helmholtz-Centre Potsdam - German Research Centre for Geosciences (GFZ) in Potsdam, Germany and presented an oral report
7. JUL. 23-25, 2019 Attending "Preparing for the next generation of ground-based solar physics observations" Workshop hosted in MSSL, United Kingdom and presented an oral report on behalf of Dr. Hui Tian
8. AUG. 5-7, 2019 Visiting Northumbria University in Newcastle, United Kingdom on discussion of CoMP data analysis with Dr. Richard Morton
9. NOV. 3-8, 2019 Attending IRIS-10 Workshop in Bangalore, India and presented a poster on behalf of Mr. Yingjie Zhu (University of Michigan, Ann Arbor)
10. JAN. 13-15, 2020 Attending The 2nd DKIST Data Processing Workshop hosted at CSUN, Northridge, CA, United States

LANGUAGE PROFICIENCY

CHINESE: Native Speaker
ENGLISH: Fluent (TOEFL Score: 110; October, 2016)

COMPUTER SKILLS

IDL, C, Python, MATLAB, LaTeX