

# ZIHAO YANG 杨子浩

## PERSONAL INFORMATION

---

DATE OF BIRTH: March 11, 1996  
PLACE OF BIRTH: Huangchuan, Henan Province, China  
CITIZENSHIP: Chinese  
PHONE: +86-13031087979  
EMAIL: yangzihao96@pku.edu.cn  
[yangzihao96@gmail.com](mailto:yangzihao96@gmail.com)  
PERSONAL WEBSITE: <https://zihaoYang-96.github.io>

## EDUCATION

---

2020-now Newkirk Fellow, High Altitude Observatory (HAO), National Center for Atmospheric Research (NCAR), Boulder, CO, USA  
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

---

- 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
- 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 Alfvénic wave observations  
Supervisor: Dr. Steven Tomczyk & Dr. Scott McIntosh
- 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 Alfvénic 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.**, Bethege, 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*, 63: 2357-2368
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

---

- |           |   |
|-----------|---|
| DEC. 2020 | Merit Student of Academic Year 2019-2020, Peking University   |
| DEC. 2020 | National Scholarship (for Ph.D. student, 30000 RMB), Ministry of Education, People's Republic of China                            |
| 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,   |

## 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 4<sup>th</sup> International Space Weather Conference (Chinese), Beijing, Aug. 1-4, 2017, **oral presentation** (in Chinese)
4. Yang, Z.: Advances in measurements of the coronal magnetic field through magneto-seismology and magnetic-field-induced transition, 2020 Chinese Astronomical Society Meeting, Beijing, Oct. 13-14, 2020, **oral presentation** (in Chinese) (2020 年中国天文年会)
5. 杨子浩:《ASO-S 日冕仪与地面日冕仪的联合观测》, 第三届 ASO-S 科学大会, 厦门, 2020 年 11 月 25-28 日, 口头报告 (Yang, Z.: Joint Observations of ASO-S/LST and ground-based coronagraph, the 3<sup>rd</sup> ASO-S Science Conference, Xiamen, Nov. 25-28, 2020, **oral presentation**)

## 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 2<sup>nd</sup> 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