

YINGJIE ZHU

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EDUCATION

B.S., Peking University, Beijing, China

Sep 2015 - July 2019

School of Earth and Space Sciences

[Official Transcripts](#)

Thesis Topic: Radiative Hydrodynamics Modeling of Eruptive Events on the Sun and M Dwarfs

Ph.D. Candidate, University of Michigan, Ann Arbor, MI

Sep 2019 - Present

Department of Climate and Space Sciences and Engineering

EXPERIENCE

Peking University, Beijing, China

Apr 2017 - July 2019

Undergraduate research supervised by Dr. Hui Tian

- Investigation of an S-shape Flare Ribbon with SDO and NVST observations
- Spectroscopic Diagnostics of IRIS data

National Solar Observatory, Boulder, CO

July 2018 - Sep 2018

Summer research supervised by Dr. Adam F. Kowalski

- Radiative Hydrodynamics Modeling of Mg II Lines at Solar Flare Ribbons

University of Michigan, Ann Arbor, MI

Sep 2019 - Present

Advisor: Dr. Enrico Landi

- Spectral Line Widths at Polar Off-limb Corona Observed by Hinode/EIS
- Ion Temperatures at a Polar Coronal Hole Boundary Observed by Hinode/EIS and SOHO/SUMER

Institute for Astronomy, University of Hawaii, Honolulu, HI

July 2022

Short visiting working with Dr. Shadia Habbal and Dr. Adalbert Ding

- Spectroscopic Observations during the 2017 Total Solar Eclipse

PUBLICATIONS

Zhu, Y., Szente, J., Landi, E., "Estimating Ion Temperatures at the Polar Coronal Hole Boundary, 2022, accepted by ApJ, [arXiv](#)

Zhu, Y., Szente, J., Landi, E., "Fe XII and Fe XIII Line Widths in the Polar Off-limb Solar Corona up to 1.5 Solar Radii", 2021, [ApJ](#), 913, 74

Zhu, Y., Kowalski, A. F., Tian, H., Uitenbroek, H. *et al.* "Modeling Mg II h, k and Triplet Lines at Solar Flare Ribbons", 2019, [ApJ](#), 879, 19.

Yang, Z., Tian, H., Bai, X., Chen, Y., Guo, Y., **Zhu, Y.** *et al.* "Can We Detect Coronal Mass Ejections through Asymmetries of Sun-as-a-star Extreme-ultraviolet Spectral Line Profiles?", 2022, [ApJS](#), 260, 36.

ACADEMIC AWARD

Outstanding Student Presentation Award (OSPA), AGU 2022 Fall Meeting	2022
Outstanding Student Poster Award, 2 nd China-Europe Solar Physics Meeting	2019
May 4 th Scholarship, PKU	2016,2017
Merit Student, PKU	2016,2018
Award for Academic Excellents, PKU	2017
Wong lo Kat Scholarship, PKU	2018
Excellent Graduate, PKU	2019

ACADEMIC ACTIVITIES

Referee for

- Astronomy & Astrophysics (A&A)

Talks

- *"Spectroscopic Observations of the Corona in the Visible and Extreme Ultraviolet during the 2017 August 21 Total Solar Eclipse"*, AGU 2022 Fall Meeting Dec 2022
- *"Ion Temperature Diagnostics at the Off-limb Coronal Hole Boundary and Post-flare Loops"*, TESS 2022 Meeting Aug 2022
- *"Modeling Mg II h, k and Triplet Lines at Solar Flare Ribbons"*, ISSI/ISSI-BJ International Team Workshop: Diagnosing Heating Mechanism in Solar Flares Through Spectroscopic Observations of Flare Ribbons Oct 2018
- *"An S-shape Flare Ribbon Observed by NVST and SDO/AIA"*, The 2017 Annual Meeting of Chinese Geoscience Union (CGU) Oct 2017

Posters

- *"Estimating Ion Temperatures at the Polar Coronal Hole Boundary"*, SHINE Workshop 2022, June 2022
- *"Ion Temperature Diagnostics at the Off-limb Coronal Hole Boundary and Post-flare Loops"*, AGU 2021 Fall Meeting Dec 2021
- *"Fe XII and Fe XIII Line Widths in the Polar Off-limb Solar Corona up to 1.5 Solar Radii"*, Hinode-14/IRIS-11 Meeting Oct 2021
- *"Fe XII and Fe XIII Line Widths in the Polar Off-limb Solar Corona up to 1.5 Solar Radii"*, SHINE 2021 Jul 2021
- *"Fe XII and Fe XIII Line Widths in the Polar Off-limb Solar Corona up to 1.5 Solar Radii"*, AGU 2020 Fall Meeting Dec 2020
- *"Modeling Mg II h, k, and Triplet Lines at Solar Flare Ribbons"*, The 2nd China-Europe Solar Physics Meeting May 2019
- *"An S-shape Flare Ribbon Observed by NVST and SDO/AIA"*, The 4th Chinese Space Weather Conference Aug 2017

GRADUATE COURSES

Fall 2019: Advanced Fluid Dynamics, Advanced Space Instrumental Lab, Space Physics; **Winter 2020:** Modern Astronomical Techniques, Radiative Transfer, Space Weather Modeling; **Fall 2020:** Computational Fluid Dynamics I, Space Plasma Physics, Advanced Quantum Mechanics I; **Winter 2021** Advanced Quantum Mechanics II, Space Instrumentation, COLLAGE 2021: Solar Spectral Line Diagnostics (NSO/CU); **Winter 2022** Sun & Heliosphere