

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 Polar Coronal Hole Boundary Observed by Hinode/EIS and SOHO/SUMER

PUBLICATIONS

Yingjie Zhu, Judit Szente, Enrico Landi, "Estimating Ion Temperatures at the Polar Coronal Hole Boundary", 2022, Submitted to ApJ, [arXiv](#)

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

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

ACADEMIC AWARD

Outstanding Student Poster Award, 2nd China-Europe Solar Physics Meeting

2019

May 4th 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

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

Talks

- *"Ion Temperature Diagnostics at the Off-limb Coronal Hole Boundary and Post-flare Loops 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

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 & Helioshpere