

Jingwen Zhang

NASA FINESST Fellow

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EDUCATION

Institute for Astronomy, University of Hawai'i at Manoa

Honolulu, HI

○ Ph.D. Candidate in Astronomy

Aug.2019-2024 Expected

○ Master of Science in Astronomy

Jun.2021

Peking University

Beijing, China

○ Master of Science in Space Physics

Sep.2016-Jun.2019

Nanjing University of Aeronautics and Astronautics

Nanjing, China

○ Bachelor of Engineering in Space Science and Technology

Sep.2012-Jun.2016

FELLOWSHIPS & AWARDS

- Future Investigators in NASA Earth and Space Science and Technology (FINESST) 2022-
- Peking University Merit Scholarship 2017-2018
- Peking University Academic New Star Award 2018
- China National Petroleum Corporation Scholarship 2017
- The 4th International Space Weather Conference Excellent Youth Award 2017
- NUA Merit Scholarship 2014

PUBLICATIONS LIST

Summary: 7 first-author (5 published, 1 accepted, 1 submitted)

- **Zhang J.**, Huber D., et al., Weiss L.M., *A Testbed for Tidal Migration: the 3D Architecture of an Eccentric Hot Jupiter HD 118203 b Accompanied by a Possibly Aligned Outer Giant Planet*, accepted by AJ. <https://ui.adsabs.harvard.edu/abs/2024arXiv240721377Z>
- **Zhang J.**, Weiss L.M., Huber D., et al., *Discovery of a Jupiter Analog Misaligned to the Inner Planetary System in HD 733444*, submitted to AJ <https://ui.adsabs.harvard.edu/abs/2024AJ...167...89Z/abstract>
- **Zhang J.**, Weiss L.M., Huber D., et al., *Dynamical Architectures of S-type Transiting Planets in Binaries I: Target Selection using Hipparcos and Gaia Proper Motion Anomalies*, AJ, 167,89 (2024) <https://iopscience.iop.org/article/10.3847/1538-3881/ad1189>
- **Zhang J.**, Bottom M., Serabyn E., *Direct Detection and Characterization of Exoplanets using imaging Fourier Transform Spectroscopy*, PASP, 136,980. <https://iopscience.iop.org/article/10.1088/1538-3873/ad37d8>
- **Zhang, J.**, Weiss L.M., Huber D., et al., *Long-period Jovian Tilts the Orbits of Two sub-Neptunes Relative to Stellar Spin Axis in Kepler-129*, AJ, 162:89 (2021). <https://iopscience.iop.org/article/10.3847/1538-3881/ac0634>
- **Zhang J.**, Tian H., Solanki S.K., et al., *Dark structures in sunspot light bridges*, ApJ, 865:29 (2018). <https://iopscience.iop.org/article/10.3847/1538-4357/aada0a>

- **Zhang J.**, Tian H., He J., et al., *Surge-like oscillations above sunspot light bridges driven by magneto-acoustic shocks*, ApJ, 838:2 (2017) <https://iopscience.iop.org/article/10.3847/1538-4357/aa63e8>
- Hon M., Huber D., Rui N. Z., ... **Zhang, J.**, et al., *A close-in giant planet escapes engulfment by its star*, Nature, 618, 917 (2023) <https://www.nature.com/articles/s41586-023-06029-0>
- Dai F., Howard A. W., Halverson S., ... **Zhang, J.**, et al., *An Earth-sized Planet on the Verge of Tidal Disruption*, 2024, AJ, 168, 101. <https://iopscience.iop.org/article/10.3847/1538-3881/ad5a7d>
- Saunders N., Grunblatt S. K., Chontos A., ... **Zhang, J.**, et al., *TESS Giants Transiting Giants VI: Newly Discovered Hot Jupiters Provide Evidence for Efficient Obliquity Damping After the Main Sequence*, AJ, 168, 81. <https://iopscience.iop.org/article/10.3847/1538-3881/ad543b>
- Isaacson H., Howard A. W., Fulton B., ... **Zhang, J.**, et al., *The California Legacy Survey V. Chromospheric Activity Cycles in Main Sequence Stars*, accepted by ApJS <https://ui.adsabs.harvard.edu/abs/2024arXiv240617332I/abstract>
- Yee, S. W., Petigura, E. A., Isaacson H., ... **Zhang, J.**, et al., *Additional Doppler Monitoring Corroborates HAT-P-11c as a Planet*, Research Notes of the AAS, Volume 8, Issue 7, id.187, 0 pp <https://ui.adsabs.harvard.edu/abs/2024RNAAS...8..187Y/abstract>
- Sullivan K., Kraus A. L., Huber D., ...**Zhang J.**, et al., *Revising Properties of Planet-Host Binary Systems. III. There Is No Observed Radius Gap for Kepler Planets in Binary Star Systems*, 2023, AJ, 165, 177. <https://iopscience.iop.org/article/10.3847/1538-3881/acbdf9>
- Sullivan K., Kraus A. L., Berger T., ...**Zhang J.**, et al., *Revising Properties of Planet-Host Binary Systems. IV. The Radius Distribution of Small Planets in Binary Star Systems is Dependent on Stellar Separation*, 2024, AJ, 168, 129. <https://iopscience.iop.org/article/10.3847/1538-3881/ad6310>
- Song Y., Tian H., Zhu X., ... **Zhang, J.**, et al., *A White-light Flare Powered by Magnetic Reconnection in the Lower Solar Atmosphere*, 2020, ApJL, 893, L13 <https://iopscience.iop.org/article/10.3847/2041-8213/ab83fa>
- Tian H., Samanta T., **Zhang, J.**, *The transition region above sunspots*, 2018, GSL, 5, 4. <https://geoscienceletters.springeropen.com/articles/10.1186/s40562-018-0103-1>
- Tian H., Yurchyshyn V., Peter H.,... **Zhang, J.**, *Frequently Occurring Reconnection Jets from Sunspot Light Bridges*, 2018, ApJ, 854, 92. <https://iopscience.iop.org/article/10.3847/1538-4357/aaa89d>
- Yang Z., Tian H., Peter H.,... **Zhang, J.**, *Two Solar Tornadoes Observed with the Interface Region Imaging Spectrograph*, 2018, ApJ, 852, 79. <https://iopscience.iop.org/article/10.3847/1538-4357/aa9e04>
- Tian H., Qu Z., Chen Y.,... **Zhang, J.**, *Observations of the solar corona during the total solar eclipse on 21 August 2017*, 2017, E&PP, 1, 68 <https://www.epccgs.org//article/doi/10.26464/epp2017010?pageType=en>

OBSERVING TIME AWARDED

- “Dynamical Architecture of Planets in Close Binaries”, Keck/NIRC2, as PI 4 nights
- “Dynamical Architecture of Planets in Close Binaries”, Keck/HIRES, as PI 5 nights

- “Dynamical Architecture of Planets in Close Binaries”, Keck/KPF, as PI 3 nights
- “Dynamical Architecture of Planets in Close Binaries”, Subaru/SCEXAO, as PI 2 nights

SELECTED TALKS & CONFERENCES

- Invited Talk at Habitable Worlds Observatory Living Worlds Seminar Series Jun. 2024
- Invited Talk at GSFC exoplanet seminar series Jun. 2024
- Invited Talk at NASA/JPL Virtual Exoplanet Lecture Series Apr. 2024
- Contributed talk at ExSoCal 2023, Pasadena, CA Dec. 2023
- Contributed talk at Keck Science Meeting, Berkeley, CA Sep. 2023
- Contributed talk at TASC7/KASC14, Honolulu, HI Jul. 2023
- Contributed talk at 240th AAS meeting, Pasadena, CA Jun. 2022
- Poster presentation at Exoplanets IV, Las Vegas, NV May 2022
- Contributed Talk at CHAMPs Exoplanet Early Career Seminar, virtual Jan. 2022
- Invited Talk at Caltech High-contrast Imaging Group, Pasadena, CA Aug. 2021
- Invited Talk at NASA/JPL Seminar, virtual Jul. 2021
- Contributed talk at IRIS-9 Workshop, Göttingen, Germany Jun. 2018
- Contributed talk at International Space Weather Conference, Beijing, China Aug. 2017

TEACHING & OUTREACH

- Co-advised, Ciana-Lei Bence, Research Experience for Undergraduates May-Jul. 2024
- Co-advised, Kenta Sakamoto, Research Experience for Undergraduates May-Jul. 2023
- Volunteered at Stargazing event, North Shore, Hawai‘i Feb. 2023
- Volunteered at Open House of IfA, UH 2022&2023
- Volunteered at AstroDay, Big Island, Hawai‘i 2020
- Teaching Assistant at UH, Astronomy 101 2019-2020
- Teaching Assistant at PKU, Solar Activities and Human Society 2017-2018
- Volunteered at 2nd Summer Youth Olympic Games at Nanjing 2014

SERVICE

- Graduate TAC Representative, University of Hawai‘i at Mānoa Aug. 2022-Dec. 2022
- Graduate GSO Representative, University of Hawai‘i at Mānoa Aug. 2021-May 2022
- Graduate Curriculum Representative, University of Hawai‘i at Mānoa Aug. 2020-May 2021