

Jingwen Zhang | Curriculum Vitae

✉ jwzhang@ucsb.edu

🏠 <https://www.jingwenzhang.space>

EDUCATION & WORK

University of California, Santa Barbara

- Postdoctoral Scholar

Santa Barbara, CA

Dec.2024-present

Institute for Astronomy, University of Hawai'i at Manoa

- Ph.D. in Astronomy
- Master of Science in Astronomy

Honolulu, HI

Aug.2019-Dec.2024

Jun.2021

Peking University

- Master of Science in Space Physics

Beijing, China

Sep.2016-Jun.2019

Nanjing University of Aeronautics and Astronautics

- Bachelor of Engineering in Space Science and Technology

Nanjing, China

Sep.2012-Jun.2016

TIME AWARDED & OBSERVING EXPERIENCE

- 2022B-2024B Keck I (HIRES): **PI**, 5 nights
- 2023A-2024B Keck I (KPF): **PI**, 5.5 nights, including 3 RM nights
- 2022A-2024B Keck II (NIRC2): **PI**, 5 nights
- 2022A-2023B Subaru (SCEXAO): **PI**, 3 nights
- 2025B Lick (ShaneAO): **PI**, 2 nights
- Observed over 20 nights with HIRES/KPF/NIRC2

FELLOWSHIPS & AWARDS

- NASA FINESST Fellowship 2022-2024
- Peking University Merit Scholarship 2017-2018
- Peking University Academic New Star Award 2018
- The 4th International Space Weather Conference Excellent Youth Award 2017
- NAAA Merit Scholarship 2014

Software Development

- *CorgiSim*: A simulation suite for the Roman Space Telescope Coronagraphic Instrument
<https://github.com/roman-corgi/corgisim>

PUBLICATIONS

Summary: 9 first-author (7 published, 2 submitted) Full list see [ADS](#).

1. **Zhang J.**, Huber D., M. Bottom, et al., *Dynamical Architectures of S-type Transiting Planets in Binaries II: A Dichotomy in Orbital Alignment of Small Planets in Close Binary Systems*, resubmitted to AJ with positive reviewer report. <https://arxiv.org/abs/2509.25332>
2. **Zhang J.**, Millar-Blanchaer A. M., et al., *Star-Debris Disk misalignment in CPD -72 2713 from JWST NIRCcam Imaging*, submitted to ApJL.

3. **Zhang J.**, Weiss L.M., Huber D., et al., *Discovery of a Jupiter Analog Misaligned to the Inner Planetary System in HD 733444*, AJ, 169, 200, (2025) <https://ui.adsabs.harvard.edu/abs/2025AJ...169..200Z/abstract>
4. **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*, AJ, 168, 295, (2024) <https://ui.adsabs.harvard.edu/abs/2024AJ...168..295Z/abstract>
5. **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>
6. **Zhang J.**, Bottom M., Serabyn E., *Direct Detection and Characterization of Exoplanets using imaging Fourier Transform Spectroscopy*, PASP, 136,980 (2024). <https://iopscience.iop.org/article/10.1088/1538-3873/ad37d8>
7. **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>
8. **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>
9. **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>
10. 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>
11. 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>
12. 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>
13. 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>
14. 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>
15. 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>
16. 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>
17. Brinkman C. L., Weiss L.M., Huber D.,...**Zhang J.**, et al., *The Compositions of Rocky Planets in Close-in Orbits Tend to be Earth-Like*, 2025, AJ, 170:109 <https://ui.adsabs.harvard.edu/abs/2025AJ...170..109B/abstract>
18. Lee R. A., Dai F., Howard A. W.,...**Zhang J.**, et al., *TOI-6324b: An Earth-Mass Ultra-Short-Period Planet Transiting a Nearby M Dwarf*, 2025 ApJL, 983:L36 <https://ui.adsabs.harvard.edu/abs/2025arXiv250216087L/abstract>

19. Crawford C. L., Li Y., Huber D.,...**Zhang J.**, et al., *The highest mass Kepler red giants – II. Spectroscopic parameters, the amplitude–activity relation, and unexpected halo orbits*, 2025, MNRAS 542, 3289–3301 <https://ui.adsabs.harvard.edu/abs/2025MNRAS.542.3289C/abstract>
20. Skyler P., Millar-Blanchaer A. M., **Zhang J.**, et al., *Discovery of a Debris Disk Around TWA 20*, accepted by AJ
21. Hom J., Wolff G. S., Clark A. C.,...**Zhang J.**, et al., *CoronaGraph Instrument Reference stars for Exoplanets (CorGI-REx) I. Preliminary Vetting and Implications for the Roman Coronagraph and Habitable Worlds Observatory*, submitted to AJ
22. 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>
23. 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>
24. 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>
25. 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>
26. 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>

Student-led paper

1. Bence C. L., **Zhang J.**, Huber D., et al., *Constraining the properties of a long-period giant companion outside a massive hot Jupiter*, in prep.

SELECTED TALKS & CONFERENCES

- Invited talk at UCLA Lunch Talk, Los Angeles, CA Oct. 2025
- Contributed talk at Towards the HWO conference, Washington DC Aug. 2025
- Contributed talk at OWL summer workshop, Santa Cruz, CA Jul. 2025
- Invited Talk at Princeton Exoplanet seminar Oct. 2024
- Invited Talk at Northwestern/CIERA Observational Group Meeting Oct. 2024
- Invited Talk at PLUNCH seminar, UCSC Sep. 2024
- Invited Talk at TESS Science Talk, MIT Jul. 2024
- 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

STUDENT ADVISED

- Eric Shen, undergrad at UCSB, advising for Summer program Jun.-Sep. 2025
- Courtney Dong, undergrad at UCSB, advising for Spring semester Jan.-Jun. 2025
- Ciana-Lei Bence, undergrad at Yale University, advising for REU program May- 2024
- Kenta Sakamoto, undergrad at St. Olaf College, advising for REU program May-Jul. 2023

TEACHING & OUTREACH

- Volunteered at Stargazing event, North Shore, Hawai'i 2023-2024
- Volunteered at Open House of IfA, UH 2022-2024
- 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

- Scientific Organizing Committee of ExSoCal 2025 Aug. 2025-
- Membership Chair at California Planet Search Council Sep. 2024-
- Graduate Representative at Telescope Time Allocation Committee, UH Aug.-Dec. 2022
- IfA Student Representative at Graduate Student Organization, UH Aug. 2021-May 2022
- Graduate Representative at Curriculum Committee, IfA, UH Aug. 2020-May 2021