

Ji Wang

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RESEARCH INTERESTS

Exoplanet detection and characterization using the radial velocity technique, transit photometry, high contrast imaging technique, and high resolution spectroscopy. High resolution imaging and interferometry. Planet formation and habitability in multiple stellar systems and planets at wide orbits. The influence of stellar abundances on planet formation.

EXPERIENCES

The Ohio State University, Columbus, OH, USA

Associate Professor, May 2024

The Ohio State University, Columbus, OH, USA

Assistant Professor, August 2018

California Institute of Technology, Pasadena, California, USA

Postdoctoral Scholar, September 2015

Yale University, New Haven, Connecticut, USA

Postdoctoral Scholar, September 2012

University of Florida, Gainesville, Florida, USA

Ph.D., Astronomy, August 2012

- Thesis Topic: *Toward Massive Detection of Planets Around M-Dwarfs Using the Radial Velocity Technique*

M.S., Astronomy, May 2008

- Thesis Topic: *High-Contrast Imaging of Exoplanets Around Giant Stars*

University of Science and Technology of China, Hefei, Anhui, P.R.China

B.S., Astrophysics, July 2006

REFEREED PUBLICATIONS (FIRST & SECOND AUTHOR)

46 first- and second-authored refereed publications and 8801 total citations, 1210 citations for first- and second-authored refereed publications, h-index = 33 (as of Feb 2025). * marks papers from advisees.

Wang, J.; 2025, ApJ, accepted, Early Accretion of Large Amounts of Solids for Directly-Imaged Exoplanets

Michael Plummer*, **Wang, J.**, Étienne Artigau, René Doyon, Genaro Suárez; 2024, ApJ, 970, 62, Atmospheric Waves Driving Variability and Cloud Modulation on a Planetary-Mass Object

Anusha Pai*, **Wang, J.**, Madelyn Broome, Chenliang Huang, Marshall C. Johnson, Ilya Ilyin, Klaus G. Strassmeier, Adam Jensen; 2024, MNRAS, 535, 1829 PEPsi's non-detection of escaping hydrogen and metal lines adds to the enigma of WASP-12 b

- Joe Schulze*, **Wang, J.**, Johnson, J. A.; Gaudi, B. S.; Rodriguez Martinez, R.; Unterborn, C. T.; Panero, W. R; 2024, PSJ, 5, 71 A Gap in the Densities of Small Planets Orbiting M Dwarfs: Rigorous Statistical Confirmation Using the Open-source Code RhoPop
- Michael Plummer*, **Wang, J.**, Lyra Cao, Marc Pinsonneault, Ilya V. Ilyin, Klaus G. Strassmeier; 2024, submitted to AAS Journals, Persistent Polar Spots on a Weak-Line T Tauri Star
- Huihao Zhang*, **Wang, J.**, Michael Plummer*; 2024, AJ, 167, 37, Detecting Biosignatures in Nearby Rocky Exoplanets using High-Contrast Imaging and Medium-Resolution Spectroscopy with Extremely Large Telescope
- Caprice Phillips*, **Wang, J.**, Billy Edwards, Romy Rodriguez Martinez, Anusha Pai Asnodkar, B. Scott Gaudi; 2023, MNRAS, 526, 2251, Exploring the potential of Twinkle to unveil the nature of LTT 1445 A
- Wang, J.**; 2023, AJ, 166, 203, Spectral Retrieval with JWST Photometric data: a Case Study for HIP 65426 b
- Michael Plummer*, **Wang, J.**; 2023, ApJ, 951, 101, Mapping the Skies of Ultracool Worlds: Detecting Storms and Spots with Extremely Large Telescopes
- Wang, J.**, Jason J. Wang, Jean-Baptiste Ruffio, Geoffrey A. Blake, Dimitri Mawet, Ashley Baker, Randall Bartos, Charlotte Z. Bond, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Daniel Echeverri, Luke Finnerty, Michael P. Fitzgerald, Nemanja Jovanovic, Ronald Lopez, Emily C. Martin, Evan Morris, Jacklyn Pezzato, Sam Ragland, Garreth Ruane, Ben Sappes, Tobias Schofield, Andrew Skemer, Taylor Venenciano, J. Kent Wallace, Peter Wizinowich, Jerry W. Xuan, Marta L. Bryan, Arpita Roy, Nicole L. Wallack; 2023, AJ, 165, 4, Retrieving C and O Abundance of HR 8799 c by Combining High- and Low-resolution Data
- Marshall Johnson, **Wang, J.**, Pai Asnodkar, Anusha ; Bonomo, Aldo S. ; Gaudi, B. Scott ; Henning, Thomas ; Ilyin, Ilya ; Keles, Engin ; Malavolta, Luca ; Mallonn, Matthias ; Molaverdikhani, Karan; Nascimbeni, Valerio ; Patience, Jennifer ; Popenhaeger, Katja ; Scandariato, Gaetano ; Schlawin, Everett ; Shkolnik, Evgenya ; Sicilia, Daniela ; Sozzetti, Alessandro; Strassmeier, Klaus G. ; Veillet, Christian ; Yan, Fei; 2023, AJ, 165, 157, The PEPSI-LBT Exoplanet Transit Survey (PETS). II. A Deep Search for Thermal Inversion Agents in KELT-20 b/MASCARA-2 b with Emission and Transmission Spectroscopy
- Jared Kolecki*, **Wang, J.**; 2022, AJ, 164, 87, Measuring Elemental Abundances of JWST Target Stars for Exoplanet Characterization I. FGK Stars
- Michael Plummer*, **Wang, J.**; 2022, ApJ, 933, 163, A Unified Spectroscopic and Photometric Model to Infer Surface Inhomogeneity: Application to Luhman 16B
- Alexander Stephan, **Wang, J.**, Cauley, P. Wilson ; Gaudi, B. Scott ; Ilyin, Ilya ; Johnson, Marshall C. ; Strassmeier, Klaus G.; 2022, ApJ, 931, 111, Nodal Precession and Tidal Evolution of Two Hot-Jupiters: WASP-33 b and KELT-9 b
- Wang, J.**, Jared Kolecki*, Ruffio, Jean-Baptiste; Wang, Jason J.; Mawet, Dimitri; Baker, Ashley; Bartos, Randall; Blake, Geoffrey A.; Bond, Charlotte Z.; Calvin, Benjamin; Cetre, Sylvain; Delorme, Jacques-Robert; Doppmann, Greg; Echeverri, Daniel; Finnerty, Luke; Fitzgerald, Michael P.; Jovanovic, Nemanja; Liu, Michael C.; Lopez, Ronald; Morris, Evan; Pai Asnodkar, Anusha*; Pezzato, Jacklyn; Ragland, Sam; Roy, Arpita; Ruane, Garreth; Sappes, Ben; Schofield, Tobias; Skemer, Andrew; Venenciano, Taylor; Wallace, J. Kent; Wallack, Nicole L.; Wizinowich, Peter; Xuan,

- Jerry W.; 2022, AJ, 163, 189, Retrieving C and O Abundance of HR 7672 AB: a Solar-Type Primary Star with a Benchmark Brown Dwarf
- Anusha Pai Asnodkar*, **Wang, J.**, Jason D. Eastman, B. Scott Gaudi, P. Wilson Cauley, Ilya Ilyin, and Klauss Strassmeier; 2022, AJ, 163, 155, Variable and supersonic winds in the atmosphere of an ultra-hot giant planet
- Anusha Pai Asnodkar*, **Wang, J.**, B. Scott Gaudi, P. Wilson Cauley, Jason D. Eastman, Ilya Ilyin, Klauss Strassmeier, and Thomas Beatty; 2021, AJ, 163, 40, KELT-9 as an eclipsing double-lined spectroscopic binary: a unique and self-consistent solution to the system
- Caprice Phillips*, **Wang, J.**, Sarah Kendrew, Thomas P. Greene, Renyu Hu, Jeff Valenti, Wendy Panero, and Joe Schulze; 2021, ApJ, 923, 144, Detecting Biosignatures in the Atmospheres of Gas Dwarfs Planets with the James Webb Space Telescope
- Jared Kolecki*, **Wang, J.**, Jennifer A. Johnson, Joel C. Zinn, Ilya Ilyin, Klaus G. Strassmeier; 2021, AJ, 162, 125, Searching For Transiting Planets Around Halo Stars. I. Sample Selection and Validation
- Kiersten Boley*, **Wang, J.**, Joel C. Zinn, Ting S. Li, Johanna K. Teske, Karen A. Collins, Kevin I. Collins, and Tianjun Gan; 2021, AJ, 162, 85, Searching For Transiting Planets Around Halo Stars. II. Constraining the Occurrence Rate of Hot Jupiters
- Joe Schulze*, **Wang, J.**, J. A. Johnson, C.T. Unterborn, W.R. Panero, B.S. Gaudi; 2021, PSJ, 2, 113 Do rocky planets reflect host-star compositions?
- Wilson Cauley, **Wang, J.**, Evgenya L. Shkolnik, Ilya Ilyin, Klaus G. Strassmeier, Seth Redfield, Adam Jensen; 2021, AJ, 161, 152, Time-resolved rotational velocities in the upper atmosphere of WASP-33 b
- Wang, J.**, Colby Jurgenson; 2020, AJ, 160, 210, Exoplanets Sciences with Nulling Interferometers and a Single-Mode Fiber-Fed Spectrograph
- Wang, J.**, Wang, Jason J.; Ma, Bo; Chilcote, Jeffrey; Ertel, Steve; Guyon, Olivier; Ilyin, Ilya; Jovanovic, Nemanja; Kalas, Paul; Lozi, Julien; Macintosh, Bruce; Strassmeier, Klaus G.; Stone, Jordan; 2020, AJ, 160, 150, On the Chemical Abundance of HR 8799 and the Planet c
- Wang, J.**, Trevor J. David, Lynne Hillenbrand, Dimitri Mawet, Simon Albrecht, Zibo Liu; 2018, ApJ, 865, 141, EPIC 203868608: A low-mass quadruple star system in the Upper Scorpius OB association
- Wang, J.**, Dimitri Mawet, Jonathan J. Fortney, Callie Hood, Caroline V. Morley, Bjorn Benneke; 2018, AJ, 156, 272, Detecting Water In HR 8799 c with High Dispersion Spectroscopy Aided By Adaptive Optics
- Garreth Ruane, **Wang, J.**, Dimitri Mawet, Nemanja Jovanovic, Jacques-Robert Delorme, Bertrand Mennesson, J. Kent Wallace; 2018, ApJ, accepted, Efficient spectroscopy of exoplanets at small angular separations with vortex fiber nulling
- Wang, J.**; Mawet, Dimitri; Ruane, Garreth; Delorme, Jacques-Robert; Klimovich, Nikita; Hu, Renyu; 2018, JATIS, 4, 4 Baseline requirements for detecting biosignatures with the HabEx and LUVOIR mission concepts
- Wang, J.**, Prato, Lisa; Mawet, Dimitri; 2017, ApJ, 838, 35, Time-Resolved High Spectral Resolution Observation of 2MASSW J0746425+200032AB

- Wang, J.**, Mawet, Dimitri; Ruane, Garreth; Renyu, Hu; Benneke, Bjorn; 2017, *AJ*, 153, 183, Observing Exoplanets with High Dispersion Coronagraphy. I. The Scientific Potential of Current and Next-Generation Large Ground and Space Telescopes
- Zhu, Wei; **Wang, J.**; Huang, Chelsea; 2016, *ApJ*, 832, 196, Dependence of Small Planet Frequency on Stellar Metallicity Hidden by Their Prevalence
- Wang, J.**, Fischer, Debra A.; Barclay, Thomas; Picard, Alyssa; et al., 2015, *ApJ*, 815, 127, Planet Hunters. VIII. Characterization of 41 Long-period Exoplanet Candidates from Kepler Archival Data
- Wang, J.**, Fischer, Debra A.; Ji-Wei, Xie; Ciardi, David; et al., 2015, *ApJ*, 813, 130, Influence of Stellar Multiplicity on Planet Formation. IV. Adaptive Optics Imaging of Kepler Stars with Multiple Transiting Planet Candidates
- Wang, J.**, Fischer, Debra A., Horch, Elliott P., Xie, Ji-Wei., 2015, *ApJ*, 806, 248, Influence of Stellar Multiplicity on Planet Formation. III. Adaptive Optics Imaging of Kepler Stars With Gas Giant Planets
- Wang, J.** & Fischer, D. A. 2015, *AJ*, 149, 14, Revealing A Universal Planet-Metallicity Correlation For Planets of Different Sizes Around Solar-Type Stars
- Wang, J.**, Fischer, Debra A., Horch, Elliott P., Huang, Xu., 2015, *ApJ*, 799, 229, On the Occurrence Rate of Hot Jupiters in Different Stellar Environments
- Wang, J.**, Fischer, Debra A.; Xie, Ji-Wei; Ciardi, David R., 2014, *ApJ*, 791, 111, Influence of Stellar Multiplicity On Planet Formation. II. Planets Are Less Common in Multiple Star Systems with Separations Smaller than 1500 AU
- Wang, J.**, Xie, Ji-Wei; Barclay, Thomas; Fischer, Debra A., 2014, *ApJ*, 783, 4, Influence of Stellar Multiplicity On Planet Formation. I. Evidence of Suppressed Planet Formation Due to Stellar Companions Within 20 AU and Validation of Four Planets From the *Kepler* Multiple Planet Candidates
- Schmitt, J. R., **Wang, J.**, Fischer, D. A., et al. 2014, *AJ*, 148, 28, Planet Hunters. VI. An Independent Characterization of KOI-351 and Several Long Period Planet Candidates from the Kepler Archival Data
- Wang, J.**, et al. 2013, *ApJ*, 776, 10, Planet Hunters. V. A Confirmed Jupiter-Size Planet in the Habitable Zone and 42 Planet Candidates from the Kepler Archive Data
- Wang, J.**, Ge, J., Wan, X., De Lee, N., & Lee, B. 2012, *PASP*, 124, 1159, Accurate Group Delay Measurement for Radial Velocity Instruments Using the Dispersed Fixed Delay Interferometer Method. II. Application of Heterodyne Combs Using an External Interferometer Filter
- Wang, J.**, Ge, J., Wan, X., Lee, B., & De Lee, N. 2012, *PASP*, 124, 598, Accurate Group-Delay Measurement for Radial-Velocity Instruments Using the Dispersed Fixed-Delay Interferometer Method
- Wang, J.**, & Ford, E. B. 2011, *MNRAS*, 418, 1822, On the eccentricity distribution of short-period single-planet systems
- Wang, J.**, Ge, J., Jiang, P., & Zhao, B. 2011, *ApJ*, 738, 132, Fundamental Performance of a Dispersed Fixed Delay Interferometer in Searching for Planets around M Dwarfs
- Wan, X.; **Wang, J.**; Ge, J. Accurate Measurement of Interferometer Group Delay Using Field-compensated Scanning White Light Interferometer. *Applied Optics*. Vol. 49 Issue 29, pp.5645-5653 (2010).

Wan, X.; **Wang, J.**; Ge, J. Resolving Fringe Ambiguities of a Wide-field Michelson Interferometer Using Visibility Measurements of a Noncollimated Laser Beam. *Applied Optics*. Vol. 48 Issue 26, pp.4909-4916 (2009).

BOOK
CHAPTER

Heliophysics: Active Stars, their Astrospheres, and Impacts on Planetary Environments. Edited by Carolus J. Schrijver, Frances Bagenal and Jan J. Sojka. Chapter 5. Characteristics of planetary systems by Debra Fischer and **Ji Wang**.

OTHER
REFEREED
PUBLICATIONS

61 contributing refereed publications (as of Feb 2025)

Finnerty, L., Xin, Y., Xuan, J. W., et al., 2025, AJ, 169, 94, True Mass and Atmospheric Composition of the Nontransiting Hot Jupiter HD 143105 b.

Crepp, J. R., Crass, J., Bechter, A. J., et al., 2025, AJ, 169, 48, Resolving the Young 2 Cygni Runaway Star into a Binary Using iLocater.

Hsu, C.-C., Wang, J. J., Blake, G. A., et al., 2024, ApJL, 977, L47, PDS 70b Shows Stellar-like Carbon-to-oxygen Ratio.

Horstman, K., Ruffio, J.-B., Batygin, K., et al., 2024, AJ, 168, 175, RV Measurements of Directly Imaged Brown Dwarf GQ Lup B to Search for Exosatellites.

Morris, E. C., Wang, J. J., Hsu, C.-C., et al., 2024, AJ, 168, 144, Andromedae b Is a Fast Rotator from KPIC High-resolution Spectroscopy.

Phillips, C. L., Faherty, J. K., Burningham, B., et al., 2024, ApJ, 972, 172, Retrieving Young Cloudy L Dwarfs: A Nearby Planetary-mass Companion BD+60 1417B and its Isolated Red Twin W0047.

Zhang, Y., Xuan, J. W., Mawet, D., et al., 2024, AJ, 168, 131, Atmospheric Characterization of the Super-Jupiter HIP 99770 b with KPIC.

Boley, K. M., Christiansen, J. L., Zink, J., et al., 2024, AJ, 168, 128, The First Evidence of a Host Star Metallicity Cutoff in the Formation of Super-Earth Planets.

Hsu, C.-C., Wang, J. J., Xuan, J. W., et al., 2024, ApJ, 971, 9, Rotation and Abundances of the Benchmark Brown Dwarf HD 33632 Ab from Keck/KPIC High-resolution Spectroscopy.

Xuan, J. W., Hsu, C.-C., Finnerty, L., et al., 2024, ApJ, 970, 71, Are These Planets or Brown Dwarfs? Broadly Solar Compositions from High-resolution Atmospheric Retrievals of 1030 M_{Jup}/M_{Jup} Companions.

Sutcliffe, B. J., Birkby, J. L., Stone, J. M., et al., 2024, MNRAS, 531, 2168, Exploring the directly imaged HD 1160 system through spectroscopic characterization and high-cadence variability monitoring.

Do, C. R., Sappéy, B., Konopacky, Q. M., et al., 2024, AJ, 167, 278, Orbital and Atmospheric Characterization of the 1RXS J034231.8+121622 System using High-resolution Spectroscopy Confirms that the Companion is a Low-mass Star.

Echeverri, D., Xuan, J. W., Monnier, J. D., et al., 2024, ApJL, 965, L15, Vortex Fiber Nulling for Exoplanet Observations: First Direct Detection of M Dwarf Companions around HIP 21543, HIP 94666, and HIP 50319.

Xuan, J. W., Wang, J., Finnerty, L., et al., 2024, ApJ, 962, 10, Validation of Elemental and Isotopic Abundances in Late-M Spectral Types with the Benchmark HIP 55507 AB System.

- Petz, S., Johnson, M. C., Asnodkar, A. P., et al., 2024, *MNRAS*, 527, 7079, The PEPSI Exoplanet Transit Survey (PETS) - IV. Assessing the atmospheric chemistry of KELT-20b.
- Finnerty, L., Xuan, J. W., Xin, Y., et al., 2024, *AJ*, 167, 43, Atmospheric Metallicity and C/O of HD 189733 b from High-resolution Spectroscopy.
- Boley, K. M., Panero, W. R., Unterborn, C. T., et al., 2023, *ApJ*, 954, 202, Fizzy Super-Earths: Impacts of Magma Composition on the Bulk Density and Structure of Lava Worlds.
- Echeverri, D., Xuan, J., Jovanovic, N., et al., 2023, *Journal of Astronomical Telescopes, Instruments, and Systems*, 9, 035002, Vortex fiber nulling for exoplanet observations: implementation and first light.
- Finnerty, L., Schofield, T., Sappéy, B., et al., 2023, *AJ*, 166, 31, Keck Planet Imager and Characterizer Emission Spectroscopy of WASP-33b.
- Uyama, T., Beichman, C., Kuzuhara, M., et al., 2023, *AJ*, 165, 162, Direct Imaging Explorations for Companions around Mid-Late M Stars from the Subaru/IRD Strategic Program.
- Ruffio, J.-B., Horstman, K., Mawet, D., et al., 2023, *AJ*, 165, 113, Detecting Exomoons from Radial Velocity Measurements of Self-luminous Planets: Application to Observations of HR 7672 B and Future Prospects.
- Rodríguez Martínez, R., Gaudi, B. S., Schulze, J. G., et al., 2023, *AJ*, 165, 97, A Reanalysis of the Composition of K2-106b: An Ultra-short-period Super-Mercury Candidate.
- Xuan, J. W., Wang, J., Ruffio, J.-B., et al., 2022, *ApJ*, 937, 54, A Clear View of a Cloudy Brown Dwarf Companion from High-resolution Spectroscopy.
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- Keles, E., Mallonn, M., Kitzmann, D., et al., 2022, *MNRAS*, 513, 1544, The PEPSI exoplanet transit survey (PETS) I: investigating the presence of a silicate atmosphere on the super-earth 55 Cnc e.
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- Wang, J. J., Ruffio, J.-B., Morris, E., et al., 2021, *AJ*, 162, 148, Detection and Bulk Properties of the HR 8799 Planets with High-resolution Spectroscopy.
- Rodríguez Martínez, R., Stevens, D. J., Gaudi, B. S., et al., 2021, *ApJ*, 911, 84, Analytic Estimates of the Achievable Precision on the Physical Properties of Transiting Planets Using Purely Empirical Measurements.
- Uyama, T., Ren, B., Mawet, D., et al., 2020, *AJ*, 160, 283, Early High-contrast Imaging Results with Keck/NIRC2-PWFS: The SR 21 Disk.
- Wang, J. J., Ginzburg, S., Ren, B., et al., 2020, *AJ*, 159, 263, Keck/NIRC2 L'-band Imaging of Jovian-mass Accreting Protoplanets around PDS 70.

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- Mawet, D., Hirsch, L., Lee, E. J., et al., 2019, AJ, 157, 33, Deep Exploration of Eridani with Keck Ms-band Vortex Coronagraphy and Radial Velocities: Mass and Orbital Parameters of the Giant Exoplanet.
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- Zhang, S., Zhou, H., Shi, X., et al., 2017, ApJ, 836, 86, Ultraviolet and Optical Emission Line Outflows in the Heavily Obscured Quasar SDSS J000610.67+121501.2: At the Scale of the Dusty Torus and Beyond.
- David, T. J., Petigura, E. A., Hillenbrand, L. A., et al., 2017, ApJ, 835, 168, A Transient Transit Signature Associated with the Young Star RIK-210.
- Ma, B., Ge, J., Wolszczan, A., et al., 2016, AJ, 152, 112, Very Low-mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. VI. A Giant Planet and a Brown Dwarf Candidate in a Close Binary System HD 87646.
- Ngo, H., Knutson, H. A., Hinkley, S., et al., 2016, ApJ, 827, 8, Friends of Hot Jupiters. IV. Stellar Companions Beyond 50 au Might Facilitate Giant Planet Formation, but Most are Unlikely to Cause Kozai-Lidov Migration.
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- Wright, J. T., Roy, A., Mahadevan, S., et al., 2013, *ApJ*, 770, 119, MARVELS-1: A Face-on Double-lined Binary Star Masquerading as a Resonant Planetary System and Consideration of Rare False Positives in Radial Velocity Planet Searches.
- De Lee, N., Ge, J., Crepp, J. R., et al., 2013, *AJ*, 145, 155, Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. V. A Low Eccentricity Brown Dwarf from the Driest Part of the Desert, MARVELS-6b.
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- Wang, J., Meyer, M., Boss, A., et al., 2019, BAAS, 51, 200, New Frontiers for Terrestrial-sized to Neptune-sized Exoplanets In the Era of Extremely Large Telescopes.

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- Wang, J., Wan, X., & Ge, J. C., 2010, Proc. SPIE, 7734, 77343Q, Development of Monolithic Michelson Interferometer for RV measurement in IR.

HONORS AND AWARDS

- Faculty co-I for the NASA Exoplanet Research Program (XRP) Proposal “The Temporal and Spatial Variability of Ultra Hot Jupiter Atmospheres”, Aug, 2022
- Faculty Mentor for the NASA Space Technology Graduate Research Opportunities (NSTGRO), Aug, 2022
- NSF Faculty Early Career Development (CAREER) Program Award, “Searching For Biosignatures in Exoplanet Atmospheres”, May, 2022
- Scialog Fellow in Signatures of Life in the Universe, Apr, 2020
- Scialog Fellow in Time Domain Astronomy, Apr, 2019
- Architect for MARVELS in SDSS III, May, 2011

INVITED TALKS

- “Temporal and Spatial Variability of Ultra-Hot Jupiters”, Colloquium Talk, Boston University, Boston, Oct, 2024
- “Early Accretion of Large Amounts of Solids for Directly-Imaged Exoplanets”, Invited Talk, Asia Oceania Geosciences Society (AOGS) 2024 meeting, Pyeongchang, South Korea, Jun, 2024
- “Early Accretion of Large Amounts of Solids for Directly-Imaged Exoplanets”, Colloquium Talk, NAOJ, Japan, Jun, 2024
- “Temporal and Spatial Variability of Ultra-Hot Jupiters”, Colloquium Talk, Ifa, University of Hawaii, Manoa, Mar, 2024
- “Early Accretion of Large Amounts of Solids for Directly-Imaged Exoplanets”, Colloquium Talk, Ifa, University of Hawaii, Hilo, Mar, 2024
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, KU Leuven, Belgium, Jun, 2023
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, University of Liege, Belgium, Jun, 2023
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, Pennsylvania State University, State College, Apr, 2023
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, University of Florida, Gainesville, Mar, 2023
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, University of Texas at Austin, Austin, Mar, 2023
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, Johns Hopkins University, Baltimore, Feb, 2023
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, MIT, Boston, Dec, 2022
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, ET seminar series, online, Nov, 2022
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, Yale University, New Haven, Oct, 2022
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, University of Arizona, Tucson, Oct, 2022
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, University of Notre Dame, South Bend, Sep, 2022
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, Radboud University Nijmegen, online, Apr, 2021
- “A Collage of Exoplanets on the Mass-Period Diagram”, Colloquium Talk, UW Madison, online, Mar, 2021
- “Exoplanet Sciences with Fiber Nullers”, Colloquium Talk, CASSACA: Chinese Academy of Sciences South America Center for Astronomy, online, Jan, 2021
- “Metallicity and Formation of Stars and Planets”, KITP, Santa Barbara, May, 2019
- “Searching for Biosignatures on Other Worlds”, Colloquium Talk at UCLA, Apr, 2018
- “Searching for Biosignatures on Other Worlds”, Colloquium Talk at the Ohio State University, Feb, 2018
- “Adaptive Optics in Exoplanetary Research”, Colloquium Talk at Las Cumbres Observatory, Santa Barbara, CA, Feb, 2018
- “Adaptive Optics in Exoplanetary Research”, Plenary Talk at CFAO retreat, Lake Arrowhead, Sep, 2017
- “Where and How to Find Habitable Planets”, Colloquium Talk, University of Montreal, Sep, 2017
- “Where and How to Find Habitable Planets”, Colloquium Talk, University of California at Berkeley, Aug, 2017
- “The New Frontier of Exoplanetary Science: High Dispersion Coronagraphy (HDC)”, Lunch Talk, Carnegie Observatories, May, 2017
- “The New Frontier of Exoplanetary Science: High Dispersion Coronagraphy (HDC)”,

Colloquium Talk, IfA, University of Hawaii, Feb, 2017
 “Where and How to Find Habitable Planets”, Colloquium Talk, IfA, University of Hawaii, Feb, 2017
 “High-Contrast Imaging and High-Resolution Spectroscopy Observation of Exoplanets”, LUVVOIR seminar Talk, Oct 2016
 “Planet Formation Under Different Environments”, Colloquium Talk, UCLA, Apr 2014
 “Planet Formation Under Different Environments”, Lunch Talk, Carnegie Observatories, Mar 2014
 “Planet Formation Under Different Environments”, Seminar Talk, Yale Center for Astronomy and Astrophysics, Yale University, Mar 2014
 “Planet Formation Under Different Environments”, Seminar Talk, Tsinghua University, Mar 2014
 “Planet Formation Under Different Environments”, Colloquium Talk, Wesleyan University, Nov 2014
 “Stellar Influence On Planet Formation”, Connecticut Star Party, Ashford CT, Sep 2014
 “Advancing Our Knowledge of Planets in the Habitable Zone and Beyond”, Colloquium Talk, IPAC, California Institute of Technology, Jul 2014
 “Planets in Binary Stars”, invited talk, CT Exoplanet Picnic, Wesleyan University, May 2014
 “Stellar Multiplicity Influence on Planet Formation”, seminar talk, Center for Exoplanets and Habitable Worlds, PSU, April 2014
 “Advancing Our Knowledge of Planets in the Habitable Zone and Beyond”, Exoplanet Talk, Princeton University, Nov, 2013
 “Searching Exoplanets in Habitable Zone Around Low Mass Stars”, AAPT Winter Meeting, Jacksonville, FL, Jan, 2011

OTHER TALKS

“One hundred exo-mercuries are worth one Mercury”, talk at the Mercury conference, Kyoto, Japan, Jun, 2024
 “Super Mercury”, at a workshop Habitability: The Astrophysical, Atmospheric, and Geophysical Implications, Munich, Germany, May, 2024
 “Multi-(sub)ApertureFiber Nulling for Exoplanet Sciences”, AO4ELT7, Avignon, France, September, 2021
 “Direct Spectroscopy of Exoplanets with ELTs: Technology and Analysis Techniques”, Spatially Resolved Spectroscopy with Extremely Large Telescopes, September, 2021
 “Exoplanet Sciences with Fiber Nullers”, New Direct Imaging Tech Talk, Sep, 2020
 “Searching for the Most Metal-Poor Planet Hosts”, Contributed Talk, Extreme Solar System IV, Iceland, Aug, 2019
 “The New Frontier of Exoplanetary Science: High Dispersion Coronagraphy (HDC)”, Invited Talk, KISS workshop, Pasadena, CA, Apr, 2018
 “The New Frontier of Exoplanetary Science: High Dispersion Coronagraphy (HDC)”, FLASH Talk, UC Santa Cruz, Aug, 2017
 “Planet Formation Under Different Environments”, Lunch Talk, IPAC, Jun 2015
 “Planet Formation Under Different Environments”, Lunch Talk, Kavli Institute for Astronomy and Astrophysics, Peking University, Mar 2014
 “Planets in Binary Stars”, Keck Science Meeting, California Institute of Technology, Oct 2014
 “Putting An End to Twinkling Litter Stars”, Astro on Tap, New Haven CT, Sep 2014
 “Advancing Our Knowledge of Planets in the Habitable Zone and Beyond”, Special Seminar Talk, UC Berkeley, Aug 2014
 “Advancing Our Knowledge of Planets in the Habitable Zone and Beyond”, special seminar, University of Pennsylvania, April 2014
 “Revealing A Universal Planet-Metallicity Correlation”, Oral presentation, AAS 223rd Meeting, National Harbor, Maryland, Jan 2014

“Advancing Our Knowledge of Planets in the Habitable Zone and Beyond”, Special Colloquium Talk, University of Florida, Nov, 2013
“Searching For Planets Around M Dwarfs Using the Radial Velocity Technique”, AAS 219th Meeting, Austin, TX, Jan, 2012 “Development of A Monolithic Interferometer For Precise Radial Velocity Measurement”, Flash Talk, University of Arizona, May, 2008

COMMUNITY
SERVICE

Reviewer for ApJ, ApJL, AJ, PASP, A&A, MNRAS, RAA, Scientific Reports, and Nature
Reviewer for the NSF CAREER Program
Reviewer for the NASA Maturation of Instruments for Solar System Exploration (MatisSE) Program
Reviewer for the Heising-Simons Foundation
Panelist on HST proposal review panel
Reviewer for JWST proposal review panel
Reviewer for the Swiss National Science Foundation and the Dutch Research Council
Member of admission committee at Yale University and the Ohio State University
Organizer/Lecturer for the Korean GMT Exoplanet Summer School, Jul, 2019

PUBLIC
OUTREACH

COSI Science Festival OSU Exoplanet Booth, Columbus, OH, May, 2024
Featured Partner at COSI Passport to The Color of Science, Columbus, OH, Apr, 2024
Columbus Science Pub, Columbus, OH, Mar, 2024
Ohio State Astronomy Club, Columbus, OH, Feb, 2024
COSI Science Festival OSU Exoplanet Booth, Columbus, OH, May, 2023
Young Scholars Program Freshman Foundations Virtual Visit, Columbus, OH, Mar, 2022
Ohio State Astronomy Club, Columbus, OH, Feb, 2022
USTC alum club, Columbus, OH, Jan, 2022
New Vista Talk @ Perkins Observatory, Columbus, OH, Sep, 2021
Franklin Science Pub, Columbus, OH, Apr, 2021
Connecticut Star Party, Ashford, CT, Sep, 2014
Venus Transit Event, Gainesville, FL, Jun 2012
Wiles Science Symposium, Gainesville, FL, May 2010
Mercury Transit Event, Gainesville, FL, Nov 2006
Stars Shine on East Gainesville, FL, Sep 2006 and Oct 2010
Volunteer in Teaching Observatory at the University of Florida, Gainesville, 2006-2012

MEDIA COVERAGE

Researchers spying for signs of life among exoplanet atmospheres
NPR: exoplanets and new research from Ohio State astronomers
Using cosmic weather to study which worlds could support life
Ji Wang Awarded NSF CAREER Grant
‘Twinkle’ satellite to scan for potentially habitable worlds
Exoplanet Stepping Stones: Researchers are Perfecting Technology to One Day Look for Signs of Alien Life
Ohio State professor advances research to detect life on other planets
Caltech: Inventing Tools for Detecting Life Elsewhere
USA Today: Volunteers spot jumbo planet in star’s ‘habitable zone’
NBC: NASA’s Kepler mission uncovers 461 more potential planets to check out
LA Times: Kepler data point to more planets in habitable zone
Telegraph: Moons rather than planets are the best place to find aliens
SDSS Blog: Ji Wang: A Rising Star in the Search for Exoplanets

BBC: Seven-planet solar system found

TEACHING
PORTFOLIO

2007-2009, Astro 1022L, Introduction to Astronomy, University of Florida
2018-2020, Astro 1141, Life in Universe, The Ohio State University
2019-2021, Astro 1144, Stars and Galaxies, The Ohio State University
2020-2023, Astro 5205, Planetary Science, The Ohio State University
2023-2023, Astro 7810, Order of Magnitude, The Ohio State University
2023-2023, Astro 1221, Astronomy Data Analysis, The Ohio State University
2024-2025, Astro 2141, Life in Universe, The Ohio State University
2024-2025, Astro 1221, Astronomy Data Analysis, The Ohio State University

STUDENTS
MENTORED

Everett McArthur, graduate student, OSU, 2024-
Connor Basinger, graduate student, OSU, 2023-
Kaz Gary, graduate student, OSU, 2022-
Gregory Costa, undergraduate student, OSU, 2023-
Erin Bernthold, undergraduate student, OSU, 2023-
Anusha Pai, graduate student, OSU, 2019-
Caprice Phillips, graduate student, OSU, 2019-
Joe Schulze, graduate student, OSU, 2018-2024
Kiersten Boley, graduate student, OSU, 2019-2024
Michael Plummer, graduate student, OSU, 2021-2024
Huihao Zhang, undergraduate student, OSU, 2022-2024
Sydney Petz, undergraduate student, OSU, 2022-2023
Avidaan Srivastava, undergraduate student, OSU, 2021-2022
Jared Kokecki, undergraduate student, OSU, 2019-2022
Grant Lach, undergraduate student, OSU, 2020-2021
Jacklyn Pezzato, graduate student, Caltech, 2018-2019
Joseph Schmitt, graduate student, Yale University, 2012-2015
Lamiya Mowla, graduate student, Yale University, 2014-2015
Carlos Sosa, undergraduate student, Caltech, 2018
Yangyang Li, undergraduate student, USTC, 2017-2018
Zhibo Liu, undergraduate student, NJU, 2017
Sizheng Ma, undergraduate student, THU, 2016
Alyssa Picard, undergraduate student, Yale University, 2012-2015
Cory Combs, undergraduate student, Yale University, 2012-2015
Charles Margossian, undergraduate student, Yale University, 2013-2015

REFERENCES
AVAILABLE TO
CONTACT

Prof. Jian Ge (e-mail: jge@shao.ac.cn)

- Professor, Shanghai Astronomical Observatory
- *Prof. Ge is my Ph.D. adviser.*

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- *Prof. Fischer is my postdoc mentor.*

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California Institute of Technology
- *Prof. Mawet is my postdoc mentor.*

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The Pennsylvania State University
- *Prof. Ford is my Ph.D. co-adviser and collaborator.*

Prof. Justin R. Crepp (e-mail: jcrepp@nd.edu; phone: +1-574-631-4092)

- Professor, Astronomy
University of Notre Dame
- *Prof. Crepp is my collaborator.*