JANE HUANG

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CONTACT INFORMATION

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APPOINTMENTS

Assistant Professor
Columbia University Dept. of Astronomy — *July 2023-present*
NASA Hubble Fellowship Program Sagan Fellow
University of Michigan Dept. of Astronomy — *August 2020-June 2023*
Postdoctoral Researcher
Center for Astrophysics | Harvard & Smithsonian — *July 2020-August 2020*

EDUCATION

Harvard University, Cambridge, MA, United States
Ph.D., Astronomy and Astrophysics — *May 28, 2020*
Secondary Field: Computational Science and Engineering
M.A., Astronomy and Astrophysics — *May 26, 2016*

University of Chicago, Chicago, IL, United States
B.S., Chemistry (with honors) with a minor in physics — *June 14, 2014*

AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS

Astronomical Society of the Pacific Robert J. Trumpler Award (PhD thesis prize)	*2021*
International Astronomical Union PhD Prize, Division F (Planetary Systems and Bioastronomy)	*2021*
National Radio Astronomy Observatory R. L. Brown Outstanding Dissertation Award	*2021*
NASA Hubble Fellowship Program Sagan Postdoctoral Fellowship	*2020-2023*
National Science Foundation Graduate Research Fellowship	*2015-2020*
Peirce Fellowship (Harvard University)	*2014-2017*
Goldwater Scholarship	*2013*
Chicago Public Schools Scholarship (University of Chicago)	*2010-2014*

GRANTS

Do protoplanetary disk substructures regulate water enrichment and pebble drift across different environments?, JWST-GO-07993, $138,684, 2026-2029, PI: Jane Huang

Unveiling diverse planet formation environments with millimeter imaging, National Science Foundation AAG #2307916, $449,288, 2023-2026, PI: Jane Huang

CONFERENCE AND WORKSHOP PRESENTATIONS

Invited talks

- "Protoplanetary disk substructures across different environments," *International Conference on Exoplanets and Planet Formation*, Shanghai, China, 2025
- "Placing Protoplanetary Disks in the Environmental Context," *Astrochemistry in the Broadband Era: ngVLA and ALMA WSU*, Portland, ME, USA, 2025

- "The Multi-wavelength View of Late Infall and Streamers," *Setting the Stage for Planet Formation: The Importance of the Environment for the Evolution of Protoplanetary Discs* (symposium at the European Astronomical Society annual meeting), Cork, Ireland, 2025
- "Insights into Planet Formation from Long-Baseline ALMA Observations," *ALMA Data Reduction Workshop*, New York, NY, USA, 2024
- "An Astronomer's View of Molecules in Protoplanetary Disks," *Molecular Astrophysics: Linking interstellar molecules with the organic inventory of (exo)-Planets and the Solar System* (Focus session at the *American Physical Society March Meeting 2024*), Minneapolis, MN, USA, 2024
- "Insights into Planet Formation from Protoplanetary Disk Observations," *Exoplanets: Atmospheres to Architectures* (Ninth Annual Giant Magellan Telescope Community Science Meeting), Washington, DC, USA, 2023
- "Insights into Planet Formation from Molecular Mapping of Protoplanetary Disks," *The Astrochemistry Subdivision: A Decade of Progress and Prospects for the Next Decade*, Symposium at the *ACS Fall 2023 National Meeting*, San Francisco, CA, USA, 2023
- "Unveiling the Birth Sites of Planets: Recent Results and Future Prospects with ALMA," *ALMA Status and Plans for Increased Capability*, ALMA Special Session at the *241st Meeting of the American Astronomical Society*, Seattle, WA, United States, 2023
- "Inferring the Characteristics of Young Planets from High Resolution Protoplanetary Disk Imaging," *The Hidden Newly Born Planets* session at *Europlanet Science Congress 2022*, Granada, Spain, 2022
- "Observational Signatures of Planet-Disk Interactions," *Planet and Binary Formation in Gravitationally Unstable Protoplanetary Discs in the High-Resolution Era,* Leicester, United Kingdom, 2022
- "Rings and Spirals in Protoplanetary Disks: The ALMA View of Planet Formation," Division F meeting (Planetary Systems and Bioastronomy) at the International Astronomical Union General Assembly, Busan, South Korea, 2022
- "Millimeter Observations of Protoplanetary Disks," *The Dynamical and Chemical Connection,* Lorentz Center Workshop, Leiden, Netherlands, 2022
- "An Observational Overview of Substructures in Protoplanetary Disks," *Gaps, Rings, Spirals, and Vortices: Structure Formation in Planet-forming Disks* , Munich Institute for Astro- and Particle Physics workshop, Munich, Germany, 2021 (remote participant)
- "The Millimeter Perspective on Disk Substructures," *Planet-forming Disks: From Surveys to Answers*, Lorentz Center Workshop (virtual), 2021
- "Towards Resolving Terrestrial-Scale Planet Formation," *The Scientific Quest for High Angular Resolution*, ngVLA Special Session at the *235th Meeting of the American Astronomical Society*, Honolulu, HI, 2020
- "Insights into Disk Structures from High Angular Resolution ALMA Observations," *Great Barriers in Planet Formation*, Palm Cove, Australia, 2019
- "The Molecular View of Disk Substructures," *Ringberg Workshop: Turbulence and Structure Formation in Protoplanetary Disks 2019*, Kreuth, Germany, 2019

Contributed talks

- "High Resolution ALMA Observations of Disks in σ Orionis," *New Heights in Planet Formation*, Garching, Germany, 2024
- "Molecular Mapping of the Peculiar DR Tau System," *241st Meeting of the American Astronomical Society*, Seattle, United States, 2023
- "Molecular Mapping of the Peculiar DR Tau System," *NASA Hubble Fellows Symposium*, Baltimore, United States, 2022 (remote participant)
- "Contextualizing Planet Formation: Mapping the Complex Environments of Protoplanetary Disks," *NASA Hubble Fellows Symposium* (virtual), 2021
- "Spiral Structures Traced by CO Emission Around RU Lup and GM Aur," *Five Years After HL Tau* (virtual), 2020
- "Observing Spiral Structures in Protoplanetary Disks," *NASA Hubble Fellows Symposium*, (virtual), 2020
- "The ALMA View of Planet Formation in Disks Around Young Stars," Dissertation talk at the *235th Meeting of the American Astronomical Society*, Honolulu, HI, United States, 2020
- "An Introduction to the Disk Substructures at High Angular Resolution Project," *Planet-forming disks: A workshop to honor Antonella Natta*, Menaggio, Italy, 2019
- "Small-scale Substructures in Protoplanetary Disks," *Boston Area Exoplanets Science Meeting #5*, Boston, MA, United States, 2019

- "High Angular Resolution ALMA Observations of Protoplanetary Disks," *Astrochemistry 2018: Past, Present, and Future*, Pasadena, CA, United States, 2018
- "High Resolution ALMA Observations of Gas and Dust in Protoplanetary Disks," *Star and Planet Formation in the Southwest 2*, Oracle, AZ, United States, 2018
- "High Resolution ALMA Observations of Gas and Dust in Protoplanetary Disks," *Exoplanets and Planet Formation*, Shanghai, China, 2017
- "An ALMA Survey of Deuterium Chemistry in Protoplanetary Disks," *Protoplanetary Discussions*, Edinburgh, United Kingdom, 2016
- "Modeling Linear Molecules as Carriers of the λ5797 Å and λ6613 Å Diffuse Interstellar Bands," *69th International Symposium on Molecular Spectroscopy*, Urbana-Champaign, IL, United States, 2014

RECENT COLLOQUIA & SEMINARS

Chemical & Physical Sciences Colloquium, University of Toronto Mississauga	*2024*
TASTY Seminar, University of Toronto (St. George)	*2024*
Astronomy Colloquium, Pennsylvania State University	*2024*
Summer Science Seminar, Wesleyan University	*2024*
Colloquium, Carnegie Observatories	*2023*
Astrophysics Lunch Seminar, Jet Propulsion Laboratory	*2023*
Astronomy Seminar, Michigan State University	*2022*
Astrophysics Colloquium, Massachusetts Institute of Technology	*2022*
Astronomy Colloquium, Columbia University	*2022*
Astronomy Colloquium, University of California, Berkeley	*2022*
Astro Seminar, Queen's University (Canada) (online)	*2021*
Colloquium, National Radio Astronomy Observatory/University of Virginia	*2021*
Planetary Science Seminar, California Institute of Technology (online)	*2021*
DAO Astronomy Colloquium, NRC Herzberg (online)	*2021*
Astronomy Colloquium, Yale University (online)	*2021*
Astronomy Colloquium, University of California, Berkeley (online)	*2021*
Exoplanet Meeting, University of Cambridge (online)	*2021*
Astrophysics Seminar, University of Leicester (online)	*2020*
Astronomy Seminar, Rice University (online)	*2020*
Tuesday University of Virginia/National Radio Astronomy Observatory Astronomy Lunch Talk (online)	*2020*
Exoplanet Seminar, Yale University	*2020*

ADVISING AND MENTORING

Graduate students advised: Sally Jiang (Columbia Astronomy PhD student, 2023-present), Joseph Tang (Columbia Astronomy PhD student, 2025-present), Aware Deshmukh (Columbia Astronomy PhD student, 2025-present)

Postdocs advised: Shangjia Zhang (NHFP Sagan Fellow at Columbia, 2024-present)

Postbacs advised: Forrest Weintraub (2024-2025)

Undergraduates advised: Andrew Li (Columbia College, 2025-present), Tzewa Dingpontsawa (Barnard College, 2025), Catherine Harmon (Barnard College, 2023-2025), Shiqi (Bronco) Yang (Columbia Engineering, 2024-2025), Amelie Sharples (Columbia College, 2022-2023), Xinyue (Lúthien) Liu (University of Michigan, 2021-2023), Feilong Meng (University of Michigan, 2021)

High school students advised (as part of Columbia Engineering the Next Generation): Jeronimo Piqueras (2025), Salvatore Aversano (2025), Asher Johnson (2024)

Committees: Thomas Pfeil (Flatiron CCA Postdoc Mentoring Committee, 2024-present), Sreejita Das (Max Planck Institute for Astronomy thesis advisory committee, 2025-present), Aware Deshmukh (Columbia astronomy first-year PhD project committee, 2025), Ben Cassese (Columbia Astronomy second-year PhD project and thesis advisory committee, 2023-2025), Daniel Yahalomi (Columbia Astronomy thesis defense committee, 2025), Stephen Coffey (Columbia Astronomy first-year PhD project committee, 2024)

COURSES TAUGHT

ASTRUN2001: Intro to Astrophysics I — *Fall 2024, Fall 2025*
ASTRUN3105: Exoplanets and Astrobiology — *Spring 2024, Spring 2025*
ASTRG9003: Research Seminar I — *Fall 2023*

SELECTED OUTREACH ACTIVITIES

Presentations and Q&As

- Guest lecturer (virtual), Hamptons Observatory, June 12, 2025
- Guest lecturer, Columbia Nevis Laboratories Science-on-Hudson Public Lecture Series, March 13, 2025
- Guest on SETI Live, January 23, 2025
- Guest lecturer (virtual), Amateur Astronomers Association, December 10, 2024
- Guest lecturer, ASTRUN2900 (Frontiers of Astrophysics), Columbia University, Nov. 10, 2023; Dec. 6, 2024; Nov. 21, 2025
- Guest speaker, "'Tell Me More' with Suzan-Lori Parks," The Glade at Little Island, July 12, 2024
- Virtual Q&A for ASTR 19 (Habitable Planets), Dartmouth University, April 11, 2024
- Guest lecturer, Columbia University Society of Physics Students meeting, March 28, 2024
- Guest lecturer, Science Research Fellows Seminar, Columbia University, November 17, 2023
- "The Worlds Outside Our Solar System" online presentation, Oak Park School District Hoffman Planetarium, Nov. 17, 2021
- "Mapping the Birthplaces of Planets" online presentation, Project Exploration STEM Summer Camp, Aug. 4, 2021
- Guest lecturer, Astro 220 (New Discoveries in Astronomy), University of Michigan, March 11, 2021 and September 29, 2022
- Guest on Weekly Space Hangouts, October 14, 2020
- Astronomy Club online guest lecture, Thomas Jefferson High School for Science and Technology Oct. 7, 2020
- "Ask an Astronomer" online panel, Astronomy at the Beach, Sept. 26, 2020
- "Mapping the Birthplaces of Planets" online presentation, YouthAstroNet Astro Chat, May 19, 2020
- Interviewee, BBC Science in Action, December 23, 2018

Contributor to LinkNYC Astronomy Month images *2023-2025*

NHFP Mentoring Program co-founder *2022-2023*
Oversaw a year-long virtual mentoring program connecting current and recent postdoctoral fellows from the NASA Hubble Fellowship Program to graduate students nearing the completion of their PhD.

Harvard Observing Project session leader *2015-2020*

- Led several observing sessions each semester introducing members of the Harvard community to the 16" Clay Telescope
- Provided guidance to three undergraduates using data from the observing sessions to prepare posters for American Astronomical Society meetings and to one undergraduate preparing a paper for *The Minor Planet Bulletin*

Volunteer Tutor *2011-2014*
Weekly tutoring of elementary and middle school students in math and science at Hyde Park Neighborhood Club, a community center in Chicago

RECENT PROFESSIONAL SERVICE ACTIVITIES

External Service:

SOC member, "Planet Formation Across Various Environments and Epochs" at Munich Institute for Astro-, Particle and BioPhysics *2025-present*
New York Area Exoplanets Meeting organizing committee *2024-present*
National Radio Astronomy Observatory (NRAO) Users Committee *2024-present*
PRIMA Planet Formation and Exoplanets working group *2025*
Referee for various journals (*The Astrophysical Journal*, *Astronomy & Astrophysics*, *Nature Astronomy*, *Monthly Notices of the Royal Astronomical Society*, *The Astrophysical Journal Letters*, *Science*) *2017-present*
Chair of the (NRAO) Data Management and Software Panel of the Users Committee *2024-2025*
James Webb Space Telescope Telescope Allocation Committee external panelist *2025*
External assessor for Royal Astronomical Society Research Fellowship *2025*
James Webb Space Telescope Telescope Allocation Committee discussion panelist *2024*
Hubble Space Telescope Time Allocation Committee discussion panelist *2023*
CASA Users Committee *2022-2023*
Grant review panel chair on a NASA research and analysis program *2022*
Subject-matter expert reviewer in a NASA peer review *2022*
FONDECYT (Chile's National Fund for Scientific and Technological Development) grant reviewer *2020*
Grant review panelist on a NASA research and analysis program *2020*

Departmental/University Service:

Columbia Astronomy Graduate Curriculum Committee *2025-present*
Columbia Arts & Sciences Junior Faculty Advisory Board member *2024-present*
Columbia Astronomy Department Colloquium Committee (chair 2025-2026) *2024-present*
Columbia Astronomy Graduate Admissions Committee *2024-present*
Columbia representative at NYU Conference for Undergraduate Women and Gender Minorities in Physics *2025*
Columbia Astronomy Department faculty search committee *2023-2024*
University of Michigan Astronomy Department colloquium co-organizer *2022-2023*

PUBLICATIONS

Underlined names indicate advisees

Manuscripts under review:

7) Izquierdo, A. et al. (including **J. Huang**), "exoALMA XIX: Quantitative mapping of gas substructures in protoplanetary disk," submitted to ApJL

6) Fukagawa, M. et al. (including **J. Huang**), "exoALMA XXI: A Two-dimensional Atlas of Deviations from Keplerian Disks," submitted to ApJL

5) Garufi, A. et al. (including **J. Huang**), "Planet-forming disks and their environment across regions and time from the full NIR census," submitted to A&A

4) Benisty, M. et al. (including **J. Huang**), "ExoALMA XX: The Morphology and Dynamics of Vertical Flows," submitted to ApJL

3) Jiang, S. D., **Huang, J.** et al. "Physical and Chemical Characterization of GY 91's Multi-ringed Protostellar Disk with ALMA," submitted to ApJ

2) Czekala, I. et al. (including **J. Huang**), "Million Points of Light (MPoL): a PyTorch library for radio interferometric imaging and inference," submitted to *Journal of Open Source Software*

1) Narang, M. et al. (including **J. Huang**), "Characterizing the Extended Molecular Hydrogen Winds in Protoplanetary Disks from the JWST Disk Infrared Spectroscopic Chemistry Survey (JDISCS)," submitted to ApJ

Refereed publications as first author:

15) **Huang, J.** et al. 2025, "Grand Design Spiral Arms in the Compact, Embedded Protoplanetary Disk of Haro 6-13," ApJ, 988, 106

14) **Huang, J.** et al. 2024, "High Resolution ALMA Observations of Richly Structured Protoplanetary Disks in σ Orionis," ApJ, 976, 132

13) **Huang, J.** et al. 2024, "Constraints on the gas-phase C/O ratio of DR Tau's outer disk from CS, SO, and C_2H observations," ApJ, 973, 135

12) **Huang, J.** et al. 2023, "Molecular Mapping of DR Tau's Protoplanetary Disk, Envelope, Outflow, and Large-Scale Spiral Arm," ApJ, 943, 107

11) **Huang, J.** et al. 2022, "Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYS): A Panchromatic View of DO Tau's Complex Kilo-astronomical-unit Environment," ApJ, 930, 171

10) **Huang, J.** et al. 2021, "Molecules with ALMA at Planet-forming Scales (MAPS) XIX. Spiral arms, a tail, and diffuse structures traced by CO around the GM Aur disk," ApJS, 257, 19

9) **Huang, J.** et al. 2020, "Large-scale CO Spirals and Complex Kinematics Associated with the T Tauri Star RU Lup," ApJ, 898, 140

8) **Huang, J.** et al. 2020, "A Multi-Frequency ALMA Characterization of Substructures in the GM Aur Protoplanetary Disk," ApJ, 891, 48

7) **Huang, J.** et al. 2018, "The Disk Substructures at High Angular Resolution Project (DSHARP). III. Spiral Structures in the Millimeter Continuum of the Elias 27, IM Lup, and WaOph 6 Disks," ApJL, 869, L43

6) **Huang, J.** et al. 2018, "The Disk Substructures at High Angular Resolution Project (DSHARP). II. Characteristics of Annular Substructures," ApJL, 869, L42

5) **Huang, J.** et al. 2018, "CO and Dust Properties in the TW Hya Disk From High-Resolution ALMA Observations," ApJ, 852, 122

4) **Huang, J.** et al. 2017, "An ALMA Survey of DCN/$H^{13}CN$ and $DCO^+/H^{13}CO^+$ in Protoplanetary Disks," ApJ, 835, 231

3) **Huang, J.**, Öberg, K. I., and Andrews, S. M. 2016, "Evidence of a CO Desorption Front in the Outer AS 209 Disk," ApJL, 823, L18

2) **Huang, J.** and Oka, T., 2015, "Constraining the Size of the Carrier of the λ5797.1 Diffuse Interstellar Band," Mol. Phys., 113, 2159-2168

1) **Huang, J.** and Öberg, K. I., 2015, "Detection of N_2D^+ in a protoplanetary disk," ApJL, 809, 26

Refereed publications as contributing author:

105) Armitage, T. et al. (including **J. Huang**), "Tracing Pebble Drift History in Two Protoplanetary Disks with CO Enhancement," accepted by ApJ

104) Mallaney, P. J. et al. (including **J. Huang**), "Protoplanetary disk cavities with JWST-MIRI: a dichotomy in molecular emission," accepted by ApJ

103) Hardiman, C. et al. (including **J. Huang**), "ExoALMA XXIV: Confirmation of non-thermal line broadening in the DM Tau protoplanetary disk," accepted by ApJL

102) Cugno, G. et al. (including **J. Huang**), 2025, "Direct Measurement of Extinction in a Planet-Hosting Gap," AJ, 170, 317

101) Romero-Mirza, C. et al. (including **J. Huang**), 2025, "JWST-MIRI Observations of the Irradiated Chemistry in the Inner Disk Cavity of GM Aur," ApJ, 991, 128

100) Krijt, S. et al. (including **J. Huang**), "Cosmic cascades: How disk substructure regulates the flow of water to inner planetary systems," ApJL, 990, 72

99) Zagaria, F. et al. (including **J. Huang**), 2025, "SO emission in the dynamically perturbed protoplanetary disks around CQ Tau and MWC 758," ApJ, 989, 30

98) Fadul, A. et al. (including **J. Huang**), 2025, "A Deep Search for Ethylene Glycol and Glycolonitrile in the V883 Ori Protoplanetary Disk," ApJL, 988, L44

97) Ginski, C. et al. (including **J. Huang**), 2025, "Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYS): Evidence for planet-disk interaction in the MASSJ16120668-3010270 system?," A&A, 699, A237

96) Arulanantham, N. et al. (including **J. Huang**), 2025, "The JDISC Survey: Linking the physics and chemistry of inner & outer protoplanetary disk zones," AJ, 170, 67

95) Fadul, A. et al. (including **J. Huang**), 2025, "A deep search for complex organic molecules toward the protoplanetary disk of V883 Ori," AJ, 169, 307

94) Uyama, T. et al. (including **J. Huang**), 2025, "JWST/NIRCam Coronagraphic Search for Hidden Planets in the HD 163296 Protoplanetary Disk," AJ, 169, 287

93) Wölfer, L. et al. (including **J. Huang**), 2025, "exoALMA XVII: Characterizing the Gas Dynamics Around Dust Asymmetries," ApJL, 984, 22

92) Barazza-Afara, M. et al. (including **J. Huang**), 2025, "exoALMA XVI: Predicting signatures of large-scale turbulence in protoplanetary disks," ApJL, 984, 21

91) Rosotti, G. et al. (including **J. Huang**), 2025, " exoALMA XV: Interpreting the height of CO emission layer," ApJL, 984, 20

90) Yoshida, T. et al. (including **J. Huang**), "exoALMA XIV. Gas Surface Densities in the RX J1604.3-2130 A Disk from Pressure-broadened CO Line Wings," ApJL, 984, 19

89) Trapman, L. et al. (including **J. Huang**), 2025, "exoALMA XIII: gas masses from N_2H^+ and $C^{18}O$: a comparison of protoplanetary gas disk mass measurement techniques," ApJL, 984, 18

88) Longarini, C. et al. (including **J. Huang**), 2025, "exoALMA XII: Weighing and sizing exoALMA disks with rotation curve modelling," ApJL, 984, 17

87) Gardner, C. et al. (including **J. Huang**), 2025, "exoALMA XI: ALMA Observations and Hydrodynamic Models of LkCa 15: Implications for Planetary Mass Companions in the Dust Continuum Cavity," ApJL, 984, 16

86) Pinte, C., Ilee, J. D., **Huang, J.** et al. 2025, "exoALMA X: channel maps reveal complex ^{12}CO abundance distributions and a variety of kinematic structures with evidence for embedded planets," ApJL, 984, 15

85) Zawadzki, B. et al. (including **J. Huang**), 2025, "exoALMA IX: Regularized Maximum Likelihood Imaging of Non-Keplerian Features," ApJL, 984, 14

84) Hilder, T. et al. (including **J. Huang**), 2025, "exoALMA VIII: Probabilistic super-resolution moment maps and data products using non-parametric linear models," ApJL, 984, 13

83) Bae, J. et al. (including **J. Huang**), 2025, "exoALMA VII. Benchmarking Hydrodynamics and Radiative Transfer Codes," ApJL, 984, 12

82) Stadler, J. et al. (including **J. Huang**), 2025, "exoALMA VI: Rotating under Pressure: Rotation curves, azimuthal velocity substructures and pressure variations," ApJL, 984, 11

81) Galloway-Sprietsma, M. et al. (including **J. Huang**), 2025, "exoALMA V: Emission Surfaces and Temperature Structures," ApJL, 984, 10

80) Curone, P. et al. (including **J. Huang**), 2025, "exoALMA IV: Substructures, Asymmetries, and the Faint Outer Disk in Continuum Emission,", ApJL, 984, 9

79) Izquierdo, A. et al. (including **J. Huang**), 2025, " exoALMA III: Line-intensity modelling and radial profile extraction from protoplanetary discs," ApJL, 984, 8

78) Loomis, R. A. et al. (including **J. Huang**), 2025, "exoALMA II: Data Calibration and Imaging Pipeline," ApJL, 984, 7

77) Teague, R. et al. (including **J. Huang**), 2025, "exoALMA I: Science Goals, Project Design and Data Products", ApJL, 984, 6

76) Yamato, Y. et al. (including **J. Huang**), 2024, "Detection of Dimethyl Ether in the MWC 480 Protoplanetary Disk," ApJ, 974, 83

75) Long, D. et al. (including **J. Huang**), 2024, "Exploring the Complex Ionization Environment of the Turbulent DM Tau Disk," ApJ, 972, 88

74) Carvalho, A. S. et al. (including **J. Huang**), 2024, "A Dust-Trapping Ring in the Planet-Hosting Disk of Elias 2-24," ApJ, 971, 129

73) Derkink, A. et al. (including **J. Huang**), 2024, "Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYS): PDS 111, an old T Tauri star with a young-looking disk," A&A, 688, 149

72) Andrews, S. M. et al. (including **J. Huang**), 2024, "On Kinematic Measurements of Self-Gravity in Protoplanetary Disks," ApJ, 970, 153

71) Tanious, M. et al. (including **J. Huang**), 2024, "Anatomy of the Class I protostar L1489 IRS with NOEMA: disk, streamers, outflow(s) and bubbles at 3mm," A&A, 687, 92

70) Valegård, Per-Gunnar, (including **J. Huang**), 2024, "The SPHERE view of the Orion star-forming region,", A&A, 685, 54

69) Garufi, A. et al. (including **J. Huang**), 2024, "The SPHERE View of the Taurus Star-Forming Region,", A&A, 685, 53

68) Ginski, C. et al. (including **J. Huang**), 2024, "The SPHERE view of the Chamaeleon I star-forming region,", A&A, 685, 52

67) Muñoz-Romero, C. et al. (including **J. Huang**), 2024, "JWST-MIRI Spectroscopy of Warm Molecular Emission and Variability in the AS 209 Disk," ApJ, 964, 36

66) Miley, J. et al. (including **J. Huang**), 2024, "High-resolution ALMA observations of compact discs in the wide-binary system Sz 65 and Sz 66," A&A, 682, A55

65) Galloway-Sprietsma, M. et al. (including **J. Huang**), 2023, "Molecules with ALMA at Planet-forming Scales (MAPS). Complex Kinematics in the AS 209 Disk Induced by a Forming Planet and Disk Winds," ApJ, 950, 147

64) Law, C. J. et al. (including **J. Huang**), 2023, "Mapping Protoplanetary Disk Vertical Structure with CO Isotopologue Line Emission," ApJ, 948, 60

63) Pegues, J. et al. (including **J. Huang**), 2023, "An SMA Survey of Chemistry in Disks around Herbig AeBe Stars," ApJ, 948, 57

62) Muñoz-Romero, C. et al. (including **J. Huang**), 2023, "Cold Deuterium Fractionation in the Nearest Planet-Forming Disk," ApJ, 943, 35

61) Zhang, Y., Ginski, C., **Huang, J.** et al. 2023, "Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYS): Diverse outcomes of binary-disk interactions," A&A, 672, 145

60) Calahan, J. et al. (including **J. Huang**), 2023, "UV-driven Chemistry as a Signpost for Late-Stage Planet Formation," Nature Astronomy, 7, 49

59) Pinilla, P. et al. (including **J. Huang**), 2022, "The Distributions of Gas, Small-, and Large-grains in the LkHα 330 Disk Trace a Young Planetary System," A&A, 665, 128

58) Long, F. et al. (including **J. Huang**), 2022, "ALMA Detection of Dust Trapping around Lagrangian Points in the LkCa 15 Disk," ApJL, 937, 1

57) Teague, R. et al. (including **J. Huang**), 2022, "Mapping the Complex Kinematic Substructure in the TW Hya Disk," ApJ, 936, 163

56) Bae, J. et al, (including **J. Huang**), 2022, "Molecules with ALMA at Planet-forming Scales (MAPS). XXI. A Circumplanetary Disk Candidate in Molecular Line Emission in the AS 209 Disk," ApJL, 934, L20

55) Law, C. J. et al. (including **J. Huang**), 2022, "CO Line Emission Surfaces and Vertical Structure in Mid-Inclination Protoplanetary Disks,", ApJ, 932, 114

54) Teague, R. et al. (including **J. Huang**), 2022, "Gas and Dust Shadows in the TW Hydrae Disk," ApJ, 930, 144

53) Martín-Domenéch, R. et al. (including **J. Huang**), 2021, "Hot corino chemistry in the Class I binary source Ser-emb 11," ApJ, 923, 155

52) Teague, R., Law, C. J., **Huang, J.**, & Meng, F., 2021, "disksurf: Extracting the 3D Structure of Protoplanetary Disks," *Journal of Open Source Software*, 6(67), 3827

51) Schwarz, K. R. et al. (including **J. Huang**), 2021, "Molecules with ALMA at Planet-forming Scales (MAPS) XX. The Massive Disk Around GM Aurigae," ApJS, 257, 20

50) Teague, R. et al. (including **J. Huang**), 2021, "Molecules with ALMA at Planet-forming Scales (MAPS) XVIII. Kinematic Substructure in the Disks of HD 163296 and MWC 480," ApJS, 257, 18

49) Calahan, J. et al. (including **J. Huang**), 2021, "Molecules with ALMA at Planet-forming Scales (MAPS) XVII. Determining the 2D Thermal Structure of HD 163296," ApJS, 257, 17

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