Haochang Jiang (蒋昊昌)

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Education

- **European Southern Observatory** — Garching bei München, Germany
  ESO Studentship, Advisor: Enrique Macias — *October 2022 - present*
- **Tsinghua University** — Beijing, China
  Ph.D. in Astronomy, Advisor: Chris W. Ormel — *August 2019 - present*
- **University of Science and Technology of China** — Hefei, Anhui, China
  B.Sc. in Astronomy — *August 2015 - July 2019*

Research Interests

My research interests center around the co-evolution of (proto) planets and their natal disks (protostellar disks, protoplanetary disks, and debris disks) from both theoretical and observational perspectives. Recently, my work has focused on investigating the formation of planetary systems from the pebble rings observed in ALMA. Additionally, I am interested in how the accreting planet interacts with the disk and shapes both disk chemistry and planet atmosphere composition.

Talks, Seminars & Conferences

May 2023	**Group meeting**, *Lunar and Planetary Laboratory, University of Arizona*, Tucson, AZ
Mar. 2023	**Contributed talk**, *Meeting of ALMA Young Astronomers*, Remote
Feb. 2023	**Group meeting**, *Department of Physics, Università degli Studi di Milan*, Milan, Italy
Feb. 2023	**Group meeting**, *Observatoire de la Côte d'Azur*, Nice, France
Feb. 2023	**Group meeting**, *Steward Observatory, University of Arizona*, Remote
Nov. 2022	**Contributed talk**, *Disks and Planets across ESO Facilities*, ESO, Garching, Germany
Nov. 2022	**Group meeting**, Ludwig-Maximilians-Universität München, München, Germany
Oct. 2022	**SPF Group Meeting**, ESO, Garching, Germany
Oct. 2022	**DoA Lunch talk**, Tsinghua University, Beijing, China
May 2022	**KIAA-DoA Seminar**, Peking University, Beijing, China
Mar. 2022	**Contributed talk**, *Meeting of ALMA Young Astronomers*, Remote
Jan. 2022	**Contributed talk**, *East Asia ALMA Science Workshop 2022*, Remote
Dec. 2021	**Contributed talk**, *Annual Meeting of the Chinese Astronomical Society 2021*, Remote
Nov. 2021	**Group meeting**, Departamento de Astronomía, Universidad de Chile, Remote
Jul. 2021	**Poster**, *2021 Sagan Exoplanet Summer Virtual Workshop*, Remote
Jun. 2021	**Contributed talk**, *Chinese Planetary Science Conference 2021*, Suzhou, Jiangsu, China
May 2021	**Poster**, *Distorted Astrophysical Discs 2021*, Remote
May 2021	**Star and Planet Formation Journal Club**, MPI for Extraterrestrial Physics, Remote
Mar. 2021	**Poster**, *Circumplanetary Disks and Satellite Formation II Conference*, Remote
Mar. 2021	**Contributed talk**, *From cores to codes: planning for the next steps in planet formation*, Remote
Jul. 2020	**Poster**, *Exoplanets III*, Remote
Nov. 2019	**Poster**, *Planet Formation Workshop 2019*, NAOJ, Mitaka, Tokyo, Japan

Teaching Experience & Professional Services

May 2023 **Scientific Assistant**, *ESO Observing Programmes Committee P112*
Dec 2022 **LOC**, *Disks and Planets across ESO Facilities*, Garching bei München, Germany
Nov 2022 **Scientific Assistant**, *ESO Observing Programmes Committee P111*
2020–2021 **Organization Assistant**, *Tsinghua DoA Colloquium*
2021 Spring **Teaching Assistant**, *40920013-90 Star & Planet* , Instructor: Chris W. Ormel

Awarded Telescope Time

2022 **Subaru**, *8.2m*, SCExAO/VAMPIRES+CHARIS, 0.5 night (PI)
2022 **VLT**, *8.2m*, VLT/MUSE, 3 hour (PI)

Publications

Refereed:

1. **Jiang H.**, Ormel C. W., 2021, MNRAS, 505, 116
   Survival of ALMA rings in the absence of pressure maxima
2. **Jiang H.**, Zhu W., Ormel C. W., 2022, ApJL, 924, L31
   No Significant Correlation between Line-emission and Continuum Substructures in the Molecules with ALMA at Planet-forming Scales Program
3. **Jiang H.**, Ormel C. W., 2023, MNRAS, 518, 3877
   Efficient planet formation by pebble accretion in ALMA rings
4. Kuang R., Zang, W., Mao S., Zhang J., **Jiang H.**, 2023, MNRAS, 520, 4540
   Simulations of Triple Microlensing Events I: Detectability of a scaled Sun-Jupiter-Saturn System
5. Wu Y.*, Chen Y.-X.*, **Jiang H.***, Dong R., Macías E., Lin M.-K., Rosotti G. P., Elbakyan V., 2023, MNRAS, in press
   Distinguishing Magnetized Disc Winds from Turbulent Viscosity through Substructure Morphology in Planet-forming Discs
   * equal contribution

Submitted:

1. **Jiang H.**, Wang Y. , Ormel C. W., Krijt S., Dong R., A&A, under review
   Chemical footprints of giant planet formation. Role of planet accretion in shaping the C/O ratio of protoplanetary disks