Haochang Jiang (蒋昊昌)

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Education

- **European Southern Observatory** — Garching bei München, Germany
  ESO Studentship, Advisor: Enrique Macías — *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

Jul. 2023	**Visitor talk**, Ludwig-Maximilians-Universität München, München, Germany
Jul. 2023	**Visitor talk**, Institute of Theoretical Astrophysics, Heidelberg University, Heidelberg, Germany
Jul. 2023	**Visitor talk**, Ludwig-Maximilians-Universität München, Heidelberg, Germany
Jul. 2023	**Contributed talk**, *European Astronomical Society Annual Meeting 2023*, Kraków, Poland
Jun. 2023	**Visitor talk**, University of Michigan, Ann Arbor, MI
Jun. 2023	**Visitor talk**, Boston University, Boston, AZ
Jun. 2023	**Visitor talk**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA
Jun. 2023	**Contributed talk**, *Emerging Researchers in Exoplanet Science symposium 2023*, New Haven, CT
Jun. 2023	**Poster**, *Origins of Solar Systems Gordon Research Conference*, South Hadley, MA
May 2023	**Invited Seminar**, *ET Science Seminar Series*, Remote
May 2023	**Visitor talk**, Lunar and Planetary Laboratory, University of Arizona, Tucson, AZ
Mar. 2023	**Contributed talk**, *Meeting of ALMA Young Astronomers*, Remote
Feb. 2023	**Visitor talk**, *Department of Physics, University of Milan*, Milan, Italy
Feb. 2023	**Visitor talk**, *Observatoire de la Côte d'Azur*, Nice, France
Feb. 2023	**Visitor talk**, Steward Observatory, University of Arizona, Remote
Nov. 2022	**Contributed talk**, *Disks and Planets across ESO Facilities*, ESO, Garching, Germany
Nov. 2022	**Visitor talk**, Ludwig-Maximilians-Universität München, München, Germany
Oct. 2022	**SPF group meeting**, ESO, Garching, Germany
Oct. 2022	**Invited Seminar**, *DoA Lunch talk*, Tsinghua University, Beijing, China
May 2022	**Invited Seminar**, *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 **Visitor talk**, 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

Jul. 2023 **Co-Advisor of Julia Perla (w/ Claudia Toci, Enrique Macías)**, *ESO Summer Research Programme*

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

2023 **Subaru**, *8.2m*, SCExAO/VAMPIRES+CHARIS, 1.0 night (PI)

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, 523, 2630
   Distinguishing Magnetized Disc Winds from Turbulent Viscosity through Substructure Morphology in

Planet-forming Discs
* equal contribution

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