

# Shuo Huang

**Keywords:** Orbital resonances; Solar system; Planet formation

## PERSONAL INFORMATION

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## EDUCATION

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2026.06 (expected)    Joint PhD at Tsinghua University (China) & Leiden Observatory (the Netherlands). Advisor: Prof. Chris Ormel & Prof. Simon Portegies Zwart  
2020.07    BS in Applied Physics, Hohai University, Nanjing, China

## PUBLICATION LIST

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(6 first author; 4 co-author; see [NASA ADS](#)) First author:

1. **Huang, S.**, Ormel, C., Portegies Zwart, S., et al. A Resonant Beginning for the Solar System Terrestrial Planets, 2025, [APJ](#), **988**, 137
2. **Huang, S.**, van der Marel, N. & Portegies Zwart, S., On the origin of transition disk cavities: Pebble-accreting protoplanets vs Super-Jupiters, 2024, [A&A](#), **691**, A155
3. **Huang, S.**, Portegies Zwart, S., C. & Wilhelm, M. On the suppression of giant planet formation around low-mass stars in clustered environments, 2024, [A&A](#), **689**, A338
4. **Huang, S.** & Ormel, C., When, where, and how many planets end up in first-order resonances?, 2023, [MNRAS](#), **522**, 1
5. **Huang, S.** & Ormel, C., The dynamics of the TRAPPIST-1 system in the context of its formation, 2022, [MNRAS](#), **511**, 3
6. **Huang, S.**, Zou, H., Liu, T., et al., An Active Flexure Compensation Method for LAMOST spectrograph based on BP-Neural Network, 2020, [RAA](#), **20**, 3

Co-author:

1. Mass, B., **Huang S.** (*co-supervision*) & Portegies Zwart, S., Stability of a cluster-disrupted mean-motion resonance (chain) in HR 8799 and PDS 70, 2025, [A&A](#), **700**, A108
2. Portegies Zwart, S. & **Huang, S.** Oort Cloud Ecology. III. The Sun left the parent star cluster shortly after the giant planets formed, 2025, [A&A](#), **698L**, 27
3. Yi, T., et al. (including **Huang, S.**), The dynamical history of the Kepler-221 planet system, 2025, [A&A](#), **695**, A191
4. Kuang, R., et al. (including **Huang, S.**), OGLE-2019-BLG-1470LABc: Another microlensing giant planet in a binary system?, 2022, [MNRAS](#), **516**, 2

## SUPERVISION EXPERIENCE

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**Teaching Assistant:** Stars and Planets, Spring 2022, Tsinghua University

**Co-supervised:**

- a summer research project, *A Broken Chain Around Barnard's Star*, with student Tony Huang, 2025, Tsinghua University.
- research project, *Stability of wide resonance chain in star clusters*, with master student, Maas Brent, Leiden University. **Paper published.**

## GRANTS AND AWARDS

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- 2024.12 2024 Chinese Association for Science and Technology (CAST) Young Talent Lift Engineering PhD Fellowship (3,000 selected candidates nationwide)
- 2024 National Scholarship, Tsinghua University (2 in 90 students)
- 2023.09 1M-CPU hours using Dutch national e-infrastructure with the support of the SURF Cooperative, "EINF-6701"
- 2023 First Prize in Comprehensive Scholarship, Tsinghua University (5 in 90 students)
- 2021 Second Prize in Comprehensive Scholarship, Tsinghua University (8 in 50 students)
- 2020 Jiangsu Province Model Student, Hohai University (10 in 20,000 students)
- 2018 National Scholarship, Hohai University (3 in 400 students)

## CONFERENCE PRESENTATIONS & SEMINARS

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### Invited and seminar talks:

- 2025.03 Invited talk in Beijing Planetarium, Beijing, China
- 2024.11 Special seminar talk in NAOJ, Tokyo, Japan
- 2024.10 Invited ET seminar talk at Shanghai Astronomical Observatory (SHAO), Online
- 2024.08 Special seminar talk in Bern Institute, Bern, Switzerland
- 2024.07 PSF coffee talk in MPIA, Heidelberg, Germany
- 2023.03 Invited seminar talk at Center for Computational Astrophysics (Flatiron), online
- 2023.01 Special talk in MPIA, Heidelberg, Germany

### Conference talks:

- 2025.04 **Best oral presentation** in the 2nd International Conference of Deep Space Sciences, Hefei, China
- 2024.10 **Best oral presentation** in National Conference on Planetary Science, Nanjing, China
- 2024.07 Contributed talk in EAS, Padova, Italy
- 2024.06 Posters in Exoplanets V, Leiden, the Netherlands
- 2024.04 Contributed talk in NOVA NW2, Amsterdam, the Netherlands
- 2024.01 Contributed talk in Rocky Worlds III, Zurich, Switzerland
- 2023.04 Contributed talk in 2023 International Conference of Deep Space Sciences, Hefei, China
- 2023.04 Poster in Protostars and Planets VII, Kyoto, Japan
- 2022.10 Contributed talk in NOVA NW2, Groningen, the Netherlands
- 2022.07 Poster in Sagan Workshop, online
- 2021.06 Contributed talk in National Conference on Planetary Science, Suzhou, Jiangsu province, China.
- 2020.10 Contributed talk in Earth 2.0 Transit Planet Survey Space Mission Science Meeting, online.
- 2020.08 Poster in EXO3 conference, online.

## PATENT LIST

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1. Huang, Shuo. 2018. A Brewster Angle Polarizer Based on a Multilayer Gradient Refractive Index Film. C.N. Patent 201811425137.6, issued Jan. 5, 2021.
2. Huang, Shuo. 2019. A Deep Learning-Based Method and System for Astronomical Spectrometer Image Quality Compensation. C.N. Patent 201910956023.2, issued Nov. 3, 2020.