# Yangfan Shi (施杨帆)

shiyf@stu.pku.edu.cn 0000-0001-9277-6495

No.5 Yiheyuan Road, Haidian District, Beijing 100871, P.R.China

## Education

| | | |
|---|---|---|
| 2020/09 - 2026/07 * | Ph.D. *in Astrophysics*, **Peking University**<br>*Advisor* - Gregory J. Herczeg & Feng Long | Beijing, China |
| 2023/11 - 2024/11 | Studentship, **European Southern Observatory**<br>*Advisor* - Enrique Macías | Garching, Germany |
| 2016/09 - 2020/07 | B.Sc. *in Physics*, **Shandong University** | Jinan, Shandong, China |

## Research Interests

- protoplanetary disks, dust properties in disks
- (sub)mm-cm interferometry observation

## Awarded Observing Programs

Awarded 3 ALMA programs as PI
Involved as co-I in 3 ALMA programs (including one Large Program); in 1 JWST program

**PI programs**:

| | |
|---|---|
| 2025 | **ALMA** Cycle 12, 27.3 hrs (**open-sky**), *2025.1.01508.S*, Priority B, in queue<br>*- Are pebbles shaping the C/O ratios of the planet-forming regions around very low-mass stars?* |
| 2024 | **ALMA** Cycle 11, 32.3 hrs, *2024.1.01378.S*, Priority C, 50% completion<br>*- Demographics of Grain Growth in the Orion Protostellar Disks* |
| 2022 | **ALMA** Cycle 9, 15.7 hrs (**open-sky**), *2022.1.01531.S*, Priority C, 90% completion<br>*- An Unbiased Survey of Disk Structures and Planet Formation around Very Low-mass Stars in Taurus*. |

**co-I programs**:

| | |
|---|---|
| 2025 | ALMA Cycle 12, *2025.1.00324.L, DMOST: Disks around the MOST common stars* |
| 2025 | JWST Cycle 4, *ID. #7280, Linking the outer structure with inner chemistry in disks around the most common planet hosts* |
| 2022 | ALMA Cycle 9, *2022.1.00828.S, Zooming into the small disks* |
| 2022 | ALMA Cycle 9, *2022.1.00646.S, Tracing the evolution of substructures: A high-resolution survey of old Upper Sco disks* |

*Expected.

## Academic Service

- **Referee** for A&A
- Dual anonymous peer-review for telescope proposals (ALMA)
- 2025/04, **Organising Assitant**, *ALMA Proposal Workshop*, KIAA, Beijing, China
- 2024/07, **LOC**, *New Heights in Planet Formation*, Garching, Germany
- 2024/05, **Scientific Assistant**, ESO Observing Programmes Committee P114

## Selected Awards & Honors

2023 - 2024 ESO Studentship Programme, ~30000 €
2023 Peking University Third Prize Scholarship

## Teaching

2022 Autumn **Teaching Assistant**, Radiation Process in Astrophysics

## Presentations

**Talks:**

2025/08 *Exoplanets & Planet Formation Workshop 2025*, Kunming, Yunnan, China **(contributed)**
2025/02 *Pebbles in Planet Formation*, NAOJ Mitaka, Tokyo, Japan **(contributed)**
2024/07 *European Astronomical Society Annual Meeting 2024*, Padova, Italy **(contributed)**
2024/06 *ET Science Seminar Series*, Shanghai Astronomical Observatory, Remote **(invited)**

**Posters:**

2025/06 *Origins of Solar System Gordon Research Conference*, South Hadley, MA, US
2024/07 *New Heights in Planet Formation*, Garching, Germany
2023/04 *Protostars and Planets VII*, Kyoto, Japan

## Publication List

List on ADS

**As first-author**:

3. **Shi, Y.** et al., in prep
   *Dust Substructures in Taurus Disk Population*

2. **Shi, Y.**; Long, F.; Macías, E.; Herczeg, G. J. et al., submitted to ApJ
   *Probing Dust in the MWC 480 Disk from Millimeter to Centimeter Wavelengths*

1. **Shi, Y.**; Long, F.; Herczeg, G. J.; Harsono, D. et al., 2024 ApJ, 966, 59
   *Small and Large Dust Cavities in Disks around Mid-M Stars in Taurus*

**As co-author**:

3. Li, J. et al. (incl. Shi, Y.), 2025, ApJL, 990, L70
   *Discovery of Hα Emission from a Protoplanet Candidate around the Young Star 2MASS J16120668–3010270 with MagAO-X*

2. Harsono, D. et al. (incl. Shi, Y.), 2024, ApJ, 961, 28
   *Dual-band Observations of the Asymmetric Ring around CIDA 9A: Dead or Alive?*

1. Long, F. et al. (incl. Shi, Y.), 2023, ApJ, 949, 27
   *A Large Double-ring Disk Around the Taurus M Dwarf J04124068+2438157*