

# Hui Peng

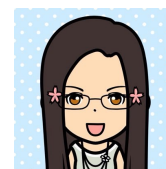
📍 800 Dongchuan Road, Shanghai, China

✉ pengh.me@gmail.com

🆔 0000-0003-3929-3229

🐙 PengHui-hub

🌐 <https://penghui-hub.github.io>



## Profile

I am ...

## Education

- 2020 – present     📖 **Shanghai Jiao Tong University**  
Ph.D. Candidate, Astronomy  
Advisor: Prof. Yu Yu
- 2016 – 2020     📖 **Nanjing University of Aeronautics and Astronautics**  
B.E. Space Science and Technology

## Publications

I have three first-author publications and one additional contribution. Please see more details in [Astrophysics Data System \(ADS\)](#)

- 1     **H. Peng** and Y. Yu, “Reconstructing redshift distributions with photometric galaxy clustering,” *JCAP*, vol. 2024, no. 10, 025, p. 025, Oct. 2024. 🔗 DOI: 10.1088/1475-7516/2024/10/025. arXiv: 2406.04407 [astro-ph.CO].
- 2     **H. Peng** and Y. Yu, “Precise self-calibration of interloper bias in spectroscopic surveys,” *MNRAS*, vol. 526, no. 1, pp. 820–829, Nov. 2023. 🔗 DOI: 10.1093/mnras/stad2808. arXiv: 2305.10487 [astro-ph.CO].
- 3     **H. Peng**, H. Xu, L. Zhang, Z. Chen, and Y. Yu, “Self-calibration of photometric redshift scatter from DECaLS DR8 power spectrum and validation with simulated catalogues,” *MNRAS*, vol. 516, no. 4, pp. 6210–6224, Nov. 2022. 🔗 DOI: 10.1093/mnras/stac2713. arXiv: 2203.14609 [astro-ph.CO].
- 4     H. Xu, P. Zhang, **H. Peng**, *et al.*, “Using angular two-point correlations to self-calibrate the photometric redshift distributions of DECaLS DR9,” *MNRAS*, vol. 520, no. 1, pp. 161–179, Mar. 2023. 🔗 DOI: 10.1093/mnras/stad136. arXiv: 2209.03967 [astro-ph.CO].

## Skills

- Languages     📖 English, Chinese
- Coding     📖 Python, Fortran,  $\LaTeX$ , ...
- Misc.     📖 Academic research, teaching, training, consultation,  $\LaTeX$  typesetting and publishing.




## Selected Awards

- 2024     📖 **Yangyang Astronomy Award**, 40000 CNY.
- 2023     📖 **Youruipu Award**, 5000 CNY.
- 2022     📖 **First-class scholarship**, 12000 CNY per annum.

## Seminar Talks and Presentations

- 2024  **DESI Summer Collaboration Meeting.**  
Title: "Self-calibrating photometric redshift in DESI" (Online talk)
-  **Annual Conference of the Chinese Astronomical Society**  
Title: "Reconstructing redshift distributions with photometric galaxy clustering" (Poster)
-  **China Space Station Telescope Science Annual Conference**  
Title: "Self-calibration of interloper bias in slitless spectroscopic surveys" (Talk)
- 2023  **Gravitational Lensing Working Conference**  
Title: "Calibrating redshift scatter in photometric surveys and interloper bias in spectroscopic surveys" (Talk)
-  **The 25th Guo Shoujing Symposium of the Chinese Astronomical Society and 2023 Seminar on the Frontiers of Galactic Cosmology**  
Title: "Self-calibrating redshift bias in surveys" (Poster)
-  **Gravitational Lensing Spring Conference**  
Title: "Implementation of self-calibration method in surveys" (Talk)
- 2022  **Cosmology with Weak Lensing: Beyond the Two-point Statistics**  
Title: "Self-calibration of photometric redshift scatter from DECaLS DR8 power spectrum and validation with simulated catalogues" (Online talk)

## References

 Name	 Institution	 Contact
Prof. X	Shanghai Jiao Tong University	pengh.me@gmail.com
Prof. Y	Shanghai Jiao Tong University	pengh.me@gmail.com
Prof. Z	Shanghai Jiao Tong University	pengh.me@gmail.com