

QIFENG HUANG

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EDUCATION

PhD in Astrophysics

Kavli Institute for Astronomy and Astrophysics, Peking University.

Sept. 2022 – Present (expected in Jun. 2027)

Beijing, China

Bachelor of Science in Astronomy

Department of Astronomy, University of Science and Technology of China.

Sept. 2018 – Jun. 2022

Anhui, China

PUBLICATIONS

Referred

- **Huang, Q.** & Fan, L. 2022, *ApJS*, 262, 39, doi: 10.3847/1538-4365/ac85b1. Massive Early-type Galaxies in the HSC-SSP: Flux Fraction of Tidal Features and Merger Rates.
- **Huang, Q.**, Wang, J., Lin, X., et al. 2025, *ApJ*, 980, 157, doi: 10.3847/1538-4357/ad9579. WALLABY Pilot Survey: Star Formation Enhancement and Suppression in Gas-rich Galaxy Pairs.
- Wang, J., Yang, D., Lin, X., **Huang, Q.**, et al. 2025, *ApJ*, 980, 25, doi: 10.3847/1538-4357/ada95a. FEASTS: Radial Distribution of HI surface densities down to $0.01 M_{\odot} \text{ pc}^{-2}$ of 35 Nearby Galaxies
- Ellison, S., **Huang, Q.**, Yang, D., et al. 2025, accepted for publication in *OJAp*, Low redshift post-starburst galaxies host abundant HI reservoirs. (arxiv: 2503.03066)

Submitted

- **Huang, Q.**, Wang, J., Ellison, S., et al. 2025, submitted to *ApJ*, Decoding the Single-peaked HI Spectra of Low Redshift Post-starburst Galaxies

OBSERVATION PROPOSALS

Five-hundred-meter Aperture Spherical radio Telescope (FAST)

- Formation of the Extended Ultraviolet Disk in NGC 4625 (PT2023-0113, **PI**, 15.0 hrs).
- A systematic survey of atomic gas in post-starburst galaxies (PT2023-0049, Co-I, 24.8 hrs).
- The evolution of the atomic gas fraction in post-merger galaxies (PT2024-0047, Co-I, 10.0 hrs).
- Building a statistical sample of HI emission in fast radio burst host galaxies (PT2024-0093, Co-I, 4.0 hrs).
- Exploring the Extended Gas Structures of NGC 6240: Insights into Merger-Driven Galaxy Evolution (PT2024-0215, Co-I, 10.0 hrs).

IRAM 30-meter telescope

- A complete and systematic survey of gas in post-starburst galaxies (I: 144-23 Winter 2023, Co-I, 73.8 hrs; II: 081-24 Summer 2024, Co-I, 59.8 hrs).

PEER REVIEWER

- *Astronomy & Astrophysics*, 1 manuscript reviewed

TEACHING ASSISTANT

- Physics of Interstellar Medium, Peking University, Feb. 2025 – Jun. 2025
- Functions of Complex Variables, University of Science and Technology of China, Sept. 2021 – Dec. 2021

PRESENTATIONS

Oral talks

- March 5, 2024. DenseGAS ALMA Workshop, Osaka, Japan. Title: Star formation enhancement for gas-rich galaxy pairs in WALLABY
- May 17, 2024. CSST Annual Science Meeting, Hangzhou, China. Title: Star formation enhancement for gas-rich galaxy pairs in the local Universe
- 20 talks at KIAA/PKU galaxy & AGN journal club (2022.9-2025.1)
- 2 topic review talks at KIAA/PKU CSST galaxy & AGN weekly discussion

Posters

- May 19-22, 2023. The 25th Guo Shoujing Academic Symposium, Huangshan, China. Title: Massive Early-type Galaxies in the HSC-SSP: Flux Fraction of Tidal Features and Merger Rates.

HONORS AND AWARDS

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| • Peking University President’s Scholarship | 2025 |
| • China National Scholarship | 2021 |
| • NAOC Scholarship, National Astronomical Observatory of China | 2021 |

LANGUAGES

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|---------------------|-----------|----------|
| • Mandarin (native) | • English | • Python |
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latest update: Jul 6, 2025