

QIFENG HUANG

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

☎ +86 15171268689 ✉ qfhuango616@gmail.com 🌐 <https://github.com/BetaGem> 🔗

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.**, Wang, J., Ellison, S., et al. 2025, ApJ, 992, 79. Decoding the Single-peaked HI Spectra of Low Redshift Post-starburst Galaxies 🔗
- **Huang, Q.**, Wang, J., Lin, X., et al. 2025, ApJ, 980, 157. WALLABY Pilot Survey: Star Formation Enhancement and Suppression in Gas-rich Galaxy Pairs. 🔗
- **Huang, Q.** & Fan, L. 2022, ApJS, 262, 39. Massive Early-type Galaxies in the HSC-SSP: Flux Fraction of Tidal Features and Merger Rates. 🔗
- Ellison, S., **Huang, Q.**, Yang, D., et al. 2025, OJAp 8 (July). Low redshift post-starburst galaxies host abundant HI reservoirs. 🔗
- Wang, J., Yang, D., Lin, X., **Huang, Q.**, et al. 2025, ApJ, 980, 25. FEASTS: Radial Distribution of HI surface densities down to $0.01 M_{\odot} \text{ pc}^{-2}$ of 35 Nearby Galaxies. 🔗

Submitted

- Roxburgh, H., Glowacki, H., Bera, A., et al. (include **Huang, Q.**) 2025, submitted to PASA. The Distribution of Atomic Hydrogen in the Hosts Galaxies of FRBs

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 & PT2025-0134, Co-I, 25.0 hrs in total).
- Building a statistical sample of HI emission in FRB 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).
- Mapping HI emission in a complete local volume sample of extremely HI-rich dwarf galaxies (PT2025-0140, 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 – Jan. 2022

PRESENTATIONS

Oral talks

- Sept 26, 2025. PHISCC2025 workshop, Cagliari, Italy. Title: Concentration of HI spectra.
- July 28, 2025. CSST Annual Science Meeting, Kunming, China. Title: Spatially resolved SED fitting of nearby galaxies.
- May 17, 2024. CSST Annual Science Meeting, Hangzhou, China. Title: Star formation enhancement for gas-rich galaxy pairs in the local Universe
- March 5, 2024. DenseGAS ALMA Workshop, Osaka, Japan. Title: Star formation enhancement for gas-rich galaxy pairs in WALLABY
- 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

- Sept 22-24, 2025. PHISCC2025 workshop, Cagliari, Italy. Title: Decoding the Single-peaked HI Spectra of Low Redshift Post-starburst Galaxies.
- 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

• 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: Oct 10, 2025