Qingzheng Yu

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EDUCATION

Ph.D. in Astrophysics *Sep. 2017 - present*
Department of Astronomy, Xiamen University, Fujian, China
- Advisor: Prof. Taotao Fang

Bachelor of Science in Physics *Sep. 2012 - Jun. 2016*
Department of Physics, Guangzhou University, Guangdong, China

RESEARCH INTERESTS

Galaxy Formation and Evolution, Circumgalactic Medium, Gas Recycling and Star Formation of Galaxies, Galaxy Interactions and Mergers, HI Absorption Survey towards Radio AGN

ACCEPTED PROPOSALS

PI, 40 h, FAST 2022
PT2022_0090, A Survey of HI Absorption in Faint Radio AGNs at $z < 0.1$

PI, 39 h, IRAM 30 m 2022A
029-22, Unveiling the cold Gas Evolution of MaNGA Merging Galaxies

PI, 12.6 h, FAST 2021
PT2021_0067, A Pilot Survey of HI Absorption in faint radio AGNs

PI, 17.8 h, IRAM 30 m 2021DDT
E01-21, Unveiling the cold Gas Evolution of MaNGA Merging Galaxies

PI, 21 h, JCMT 2021B
M21BP051, Probing the Cold Gas Evolution of MaNGA Merging Galaxies

PI, 1 night, P200/Hale TAP 2021B
CTAP2021-B0019, Probing the Circumgalactic Medium of Galaxy Mergers with Deep Hα Imaging

PI, 11 h, GBT 2021A
GBT-21A-245, Probing the HI content of Merging Galaxies in MaNGA

PI, 1 night, P200/Hale TAP 2021A
CTAP2021-A0034, Probing the Circumgalactic Medium of Galaxy Mergers with Deep Hα Imaging

PI, 4 h, FAST 2020
PT2020_0152, Probing the HI content of Merging Galaxies in MaNGA

Co-I, 26 h, FAST 2021
PT2021_0040, Unveiling the Interaction between the Magellanic Stream and the Milky Way's Circumgalactic Medium

Co-I, 30 h, FAST 2021
PT2021_0139, Search for Extragalactic HI Absorption Systems in the Redshift Range of 0.25-0.35

Co-I, 2 h, FAST 2021
PT2021_0120, Two Quiescent Close Binary Systems that Contain a Candidate Neutron Star

Co-I, 11 h, FAST 2020
PT2021_0186, Probing the HI Gas Contents of Transitional Galaxies Indicated by the [N II]/[S II] ratios

Co-I, 3 h, FAST 2020
PT2021_0147, Direct Observation of the HI Disk of Massive Spiral Galaxy: A Pilot Study of NGC 891

Co-I, 7 h, FAST Shared risk 2019
2019a-005-S, Connecting the Circumgalactic Medium and the HI content of the redshift ~ 0.2 galaxies: A pilot study

OBSERVING EXPERIENCE

Radio single-dish spectroscopy and mapping:

FAST, HI spectral line observations of nearby galaxies, pool, 38 h
FAST, HI mapping of high-velocity clouds, pool, 26 h
GBT, HI spectral line observations of nearby galaxies, pool, 11h
IRAM 30m, CO spectral line observations of nearby galaxies, remote, 149 h
JCMT, CO spectral line observations of nearby galaxies, pool, 21 h
Parkes, HI spectral line observations of nearby galaxies, remote, 22 h

Optical imaging and spectroscopy:

P200/Hale, narrow-band imaging of nearby galaxies with WaSP, remote, 2 nights
P200/Hale, spectroscopic observations of nearby galaxies with DBSP, remote, 1 night

SKILLS

Languages:	Chinese, English
Programming:	Python, IDL, Matlab
Software & Tools:	GBTIDL, Starlink, MIRIAD, IRAF, GILDAS

COMMUNITY SERVICE

Member of the FAST User Committee

PUBLICATIONS

Yu Q., Fang T., Feng S., Zhang B., Xu C. K., Wang Y., Hao L., *On the HI Content of MaNGA Major Merger Pairs*, 2022, ApJ, 934, 114.
Zhang B., Zhu M., Wu Z.-Z., **Yu Q.-Z.**, et al., *Extragalactic HI 21-cm absorption line observations with the Five-hundred-meter Aperture Spherical radio Telescope*, 2021, MNRAS, 503, 5385