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EDUCATION

Ph.D. in Astrophysics

Sep. 2017 - Jun. 2023

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, Interstellar Medium, Gas Recycling and Star Formation of Galaxies, Galaxy Interactions and Mergers, H I Absorption Survey toward Radio AGNs

ACCEPTED PROPOSALS

PI, 38.4 h, FAST

2023

PT2023_0004, Unveiling the Interaction between the Magellanic Stream and the Milky Way's Circumgalactic Medium

PI, 34 h, FAST

2023

PT2023_0021, Deep Mapping of Diffuse H I Gas in Intragroup Medium of Hickson Compact Groups

PI, 19.7 h, JVL

2023A

23A-236, Unveiling the Origin of H I Absorbers toward Faint Radio AGNs Discovered by FAST

PI, 56.6 h, FAST

2022

PT2022_0090, A Survey of H I 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 H I 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 H α Imaging

PI, 11 h, GBT	2021A
GBT-21A-245, Probing the H I content of Merging Galaxies in MaNGA	
PI, 1 night, P200/Hale	TAP 2021A
CTAP2021-A0034, Probing the Circumgalactic Medium of Galaxy Mergers with Deep H α Imaging	
PI, 4 h, FAST	2020
PT2020.0152, Probing the H I content of Merging Galaxies in MaNGA	
Co-I, 19.4 h, FAST	2022
PT2022.0181, Search for Extragalactic H I Absorption Systems in the Redshift Range of 0.25-0.35	
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 H I 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 H I 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 H I 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 H I content of the redshift ~ 0.2 galaxies: A pilot study	

OBSERVING EXPERIENCE

Radio single-dish spectroscopy and mapping:

[FAST](#), H I spectral line observations of nearby galaxies, pool, 94 h
[FAST](#), H I mapping of nearby galaxy groups, pool, 34 h
[FAST](#), H I mapping of high-velocity clouds, pool, 64 h
[GBT](#), H I 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](#), H I spectral line observations of nearby galaxies, remote, 22 h

Radio interferometer:

[JVLA](#), H I spectral line and continuum imaging of nearby galaxies, pool, 19.7 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

CONFERENCE CONTRIBUTION

H I Absorption in Low-power Radio AGNs Detected by FAST	07/2023
-Contributed talk on “Symposium on Multiwavelength Studies of Quasars and Active Galactic Nuclei”, Lijiang, China	
Investigating Galaxy Interactions and AGN through H I Observations	06/2023
-Contributed talk on “Sixth Annual SKA Science Symposium”, Shanghai, China	
On the H I Content of MaNGA Major Merger Pairs	08/2022
-Contributed remote talk on “IAUGA 2022 Symposium 373”, Busan, Korea	
On the H I Content of MaNGA Major Merger Pairs	12/2021
-Contributed talk on “Jing-Guang-Xia Astrophysics Symposium”, Xiamen, China	
H I observations of MaNGA merging galaxies and HVCs with FAST	04/2021
-Contributed talk on “CRAFTS and FAST data analysis workshop”, Nanjing, China	

COMMUNITY SERVICE

Member of the FAST User Committee

SKILLS

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

REFERENCES

- Taotao Fang
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Professor of Astronomy & Astrophysics, Department of Astronomy, Xiamen University
- Cong Kevin Xu
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Professor of Astronomy & Astrophysics,
Chinese Academy of Sciences South America Center for Astronomy,
National Astronomical Observatories, Chinese Academy of Sciences
- Junfeng Wang
Email: jfwang@xmu.edu.cn
Professor of Astronomy & Astrophysics, Department of Astronomy, Xiamen University

PUBLICATIONS

- As the first author:

Yu Q., Fang T., Wang J., Wu J., *HI Absorption in Low-power Radio AGNs Detected by FAST*, 2023, [ApJ](#), 952, 144

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

Yu Q. et al., *CO Observations of MaNGA Galaxy Pairs*, in preparation.

- As a co-author:

Yi T., +17+ **Yu Q.** +10, *A Dynamically discovered and characterized non-accreting neutron star-M dwarf binary candidate*, 2022, [Nature Astronomy](#), 6, 1203

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