# Qiong Li

The University of Manchester

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#### Education

#### Peking University

Ph.D., Astrophysics

Beijing, China 2014 - 2020

- Supervisor(s): Ran Wang
- Thesis: The Multi-Wavelength Studies of the Formation and Evolution of Galaxies at High Redshift

## The University of California at Santa Cruz

Visiting student, Astrophysics

Santa Cruz, CA, USA

2017 - 2018

- Supervisor(s): Jason X. Prochaska, Zheng Cai
- Thesis: Evolution of Multiphase ISM and CGM of galaxies in the Large Scale Structure at High Redshift

### Northwest University

B.Sc. Physics

Xi'an, China 2010 - 2014

### **Employment**

2022 - 2025 <b>Researcher Assistant</b> , the University	ty of Manchester	, working with:	$\operatorname{Chris}$	Conselice.
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2021 - 2022 **Postdoctoral Fellow**, the University of Michigan, working with: Jiangtao Li, Joel Bregman, enrollment delayed to September 2021 due to COVID-19.

2020 - 2021 Postdoctoral Researcher, Tsinghua University, working with: Zheng Cai

#### Research

Broad interests in galaxy (proto-)clusters in the large scale structure and the formation and evolution of quasars/galaxies at high redshift (2.3 < z < 10.0), especially focus on:

- Multi-wavelength observations of the high redshift galaxies and (proto-)clusters: photometry, spectroscopy, clustering
- Machine learning applications for analyzing high-redshift galaxy properties and clustering patterns.
- Multi-phase circumgalactic medium (CGM) of high-z quasars associated with galaxy overdensities.

I have extensively used (observing, data handling, and analysis) optical, IR, mm and radio telescope and instruments, such as JWST, HST, Keck/LRIS, Magellan/IMACS, JCMT, NOEMA, VLA, ALMA, as well as integral field spectrographs such as Keck/KCWI and Hale/PCWI, as the PI or Co-I of different projects over the past few years.

### **Expertise**

- Programming: Python, IDL and C++
- Astrophysical:
  - Software: Starlink, GILDAS, CASA, Bagpipes, Specutils, LMFIT, Galfit, EAZY, LePhare
  - Data reduction: rich experience in the imaging and spectroscopy (long slit and muti-slit)
    data reduction; the IFU spectroscopy data; and radio/mm interferometry data reduction
  - Simulation and model: CLOUDY model, LENSTOOL, IllustrisTNG, JAGUAR Simulation

### **Observing Experience**

2022-2020	Magellan Telescope, Las Campanas Observatory, Chile	8 nights
2019-2018	Keck Telescope / KCWI, remote	6 nights
2019-2016	Palomar Hale-200inch Telescope, Palomar Observatory, California, US	$\sim 20 \text{ nights}$
2019-2016	James Clerk Maxwell Telescope (JCMT), Hawaii, US	$\sim 40 \text{ nights}$
2022 - 2021	The Hiltner 2.4m Telescope, MDM observatory, Arizona, US,	14 nights
2017-2016	Bok 2.3m Telescope, Steward Observatory, Arizona, US	15 nights
2022 - 2021	The McGraw-Hill 1.3m Telescope, remote	21 nights
2020-2019	IRAM-30m Millimeter Radio Telescope, remote	8 nights
2015	PMO 13.7 m Millimeter Telescope, Qinghai, China	5 nights

### Teaching Experiences, Service & Outreach

2016, 2022-2024	2 years of teaching undergraduate courses and labs at Peking University (PHY-1-
	04x) and University of Manchester (PHYS31692, PHYS40181&40182) as a teaching
	assistant.
2023 - 2024	(Co-)Supervision of Students Master's student Qiao Duan (the University of
	Manchester), secured full PhD scholarships at Oxford and Cambridge University.
2022	(Co-)Supervision of Students Tiancheng Yang (Nanjing University)
2022 - present	Member of the James Webb Space Telescope EPOCHS collaboration,
	ERC Advanced Investigator Grant
2022 - present	Member of the James Webb Space Telescope PEARLS collaboration
2021	Member of ELT/MOSAIC science working group
2018	Referee/judge, the 12th International Olympiad on Astronomy and Astrophysics,
	Beijing
2016	Tutor, the 2016 National Astronomy Summer School for Undergraduate Students,
	Beijing + Xinglong Observatory, China

#### **Publications**

All papers (as of Sept., 2025):

number of papers: 50, h-index: 17, average citations: 24.3

First Author and Corresponding Author Papers: (as of Sept., 2025):

number of papers: 12, h-index: 8, average citations: 13.8

# **Selected Talks**

2024 <b>Seminar talk</b> , University of Harvard	Cambridge, US
2024 Colloquium, University of Michigan	Ann Arbor, US
2024 Seminar talk, Massachusetts Institute of Technology	Cambridge, US
2023 Colloquium, Peking University	Beijing, China
2023 Conference talk, Conference: Resolving the Universe, Waseda Uni	iversity Tokyo, Japan
2022 Colloquium, University of Manchester	Manchester, UK
2022 Conference talk, Conference, Arizona University	Tucson, US
2021 Colloquium, University of Michigan	Ann Arbor, US
2020 Contributed talk, Conference: 2020 galaxy and cosmos workshop	Zhongshan, China
2019 Contributed talk, Conference: TAP workshop, Xiamen University	Xiamen, China
2019 Contributed talk, Conference: KIAA Forum on Gas in Galaxies,	PKU/KIAA Beijing, China
2019 Lunch talk, Caltech	Pasadena, US
2019 Contributed talk, Conference: Dusting the Universe, UA/Steward	l Observatory Tucson, US
2018 Lunch talk, UCSC	Santa Cruz, US
2017 IMPS Seminar, UCO/Lick Observatory,	Santa Cruz, US
2017 Contributed talk, Conference: JCMT Users meeting, East Asian	Observatory Nanjing, China
2016 Contributed talk, BHOLE workshop	Beijing, China
2016 Contributed talk, the TIARA radio astronomy summer school, A	SIAA Taipei