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EDUCATION

PhD of Science | *Astronomy*

European Southern Observatory | Supervisor: Prof. Rob Ivison

Sep. 2020 – Aug. 2023

Garching, Germany

Master of Science | *Astronomy*

Nanjing University | Supervisor: Prof. Yong Shi & Prof. Zhi-yu Zhang

Sep. 2017 – Jun. 2020

Nanjing, China

Bachelor of Science | *Physics*

Lanzhou University

Sep. 2013 – May. 2017

Lanzhou, China

TELESCOPE PROPOSALS AND OBSERVING EXPERIENCE

PI Proposals:

- **IRAM30m** Summer 2022 Delta, 095-22: The tip of the iceberg? 34.4 hrs, (**PI: Jianhang Chen, A priority**).
- **ALMA** Cycle-9, 2022.1.00495.S: *Isotopic constraints on the IMF in the most extreme star-forming environments in the Universe*, 23.7 hrs, (**PI: Jianhang Chen, A priority**).
- **JCMT** 22A, M22AP002: Revealing the structure around a putative new SMG proto-cluster core, 8.5 hrs, (**PI: Jianhang Chen, B priority**).
- **ALMA** Cycle-8, 2021.1.00458.S: *Dust polarisation in distant, star-forming galaxies: a transformative survey of the viable targets*, 25.1 hrs, (**PI: Jianhang Chen, B priority**).

Co-I Proposals:

- **ALMA** Cycle-8, 2021.1.00018.S: *Exploiting a snapshot survey of the 3,083 reddest Herschel sources to reveal distant protoclusters*, 30.6 hrs, (PI: R. Ivison).
- **ALMA** Cycle-8, 2021.1.01342.S: *[CI] as a molecular gas tracer in star forming galaxies at high redshift*, 9.6 hrs, (PI: M. Castillo)
- **VLA** 2020B, 20B-180: *Off-nuclear star formation in a gas-rich low-mass S0 galaxy*, 27 hrs, (PI: Zhengyi Chen)

Observing Experience:

- **IRAM30m**, NIKA2, 6 nights, 18-25 Oct. 2022

RESEARCH EXPERIENCE

short term visit, Durham University/Physics department

Host: Prof. Mark Swinbank Topic: dynamical modeling

14-24 Sep. 2022

Durham, UK

Astrophysics, Formation and Evolution of Galaxy cluster Across Cosmic Time

Winter School

23 Nov.-1 Dec. 2021

Tenerife, Spain

10th IRAM 30-meter School on Millimeter Astronomy

Winter School

15-23 Nov. 2021

Online

Astrostatistics and R training

The 2nd East Asian Astrostatistics International Conference (EAAIC2018)

09-13 Jul. 2018

Nanjing, China

CONFERENCE AND SEMINAR TALKS

ALMACAL IX: multi-band ALMA survey for dusty star-forming galaxies A half-century of millimeter and submillimeter astronomy	15–23 Dec. 2022 Miyakojima, Japan
ALMACAL: Number counts and the resolved fractions of the CIB Meeting of ALMA Young Astronomers	3–4 Mar. 2022 Online
Submillimetre number counts 12th IMPRS Symposium	5–6 Nov. 2021 Garching, Germany
The spatial extension of AGN narrow line regions MaNGA Collaboration Meeting	1–4 Apr. 2019 Oxford, UK

POSTERS

ALMACAL: A ‘free’ submillimetre galaxy survey PoSTER 2022 - Galaxy Evolution (Best poster award)	3–5 May. 2022 Online
ALMACAL: Hunting for regions over-dense in SMGs XXXII Canary Islands Winter School of Astrophysics	23 Nov.–1 Dec. 2021 Tenerife, Spain

COMMUNITY INVOLVEMENT

Scientific Assistant at ESO OPC P110 Helping to organise pannel discussion	May. 2022
Scientific Assistant at ESO OPC P109 Helping to organise pannel discussion	Nov. 2021
Organisor of student session of Munich Joint Astronomy Colloquium Helping to coodinate the discussion between students and the speaker	Nov. 2021
Member of LOC for the 11th IMPRS Symposium Helping to organise meeting schedule	May 2021
Scientific referee for Publications of the Astronomical Society of Japan	2020

AWARDS AND SCHOLARSHIP

International Max-Planck Research Scholarship (IMPRS) on Astrophysics Grant for PhD study	2020-2023
Excellence Scholarship Nanjing University	Spring 2019
Outstanding Graduates Award Lanzhou University	Spring 2017
National Encouragement Scholarship Merit based scholarship for collage students in China	2015,2016
The First Prize Scholarships Lanzhou University	Spring 2014

SKILLS

Languages: Chinese (Native), English (C1)
Programming: Python (NumPy, SciPy, Matplotlib, Pandas), MATLAB, Mathematica
Document Creation: HTML, LaTeX, Markdown
Software: pPXF, CASA, CARTA, DS9, BBarolo, Galpak

First author papers:

- “ALMACAL X: Extreme over-densities are not always signposts to proto-clusters – a cautionary tale” Chen, Ivison, Zwaan et al. MNRAS. (in submission)
- “ALMACAL IX: multi-band ALMA survey for dusty star-forming galaxies and the resolved fractions of the cosmic infrared background” Chen, Ivison, Zwaan et al. MNRAS, (2022)
- “The spatial extension of extended narrow line regions in MaNGA AGN” Chen, Shi, Dempsey et al. MNRAS, 489, 855 (2019)

Co-author papers:

- “The H I gas disc thickness of the ultra-diffuse galaxy AGC 242019” Li, Shi, Zhang et al. MNRAS, 516, 4220 (2022)
- “ALMACAL: Surveying the Universe with ALMA Calibrator Observations” Zwaan, Ivison, Peroux et al. The Messenger, 186, 10 (2022)
- “The major mechanism to drive turbulence in star-forming galaxies” Yu, Bian, Krumholz et al. MNRAS, 505, 5075 (2021)
- “Probing possible effects of circumgalactic media on the metal content of galaxies through the mass-metallicity relationship” Zhai, Shi, Chen et al. MNRAS, 504, 1959 (2021)
- “A Cuspy Dark Matter Halo” Shi, Zhang, Wang et al. ApJ, 909, 20 (2021)
- “The impact of merging on the origin of kinematically misaligned and counter-rotating galaxies in MaNGA” Li, Shi, Bizyaev et al. MNRAS, 501, 14 (2021)
- “Host galaxy properties of changing-look AGNs revealed in the MaNGA survey” Yu, Shi, Chen et al. MNRAS, 498, 3985 (2020)
- “What drives the velocity dispersion of ionized gas in star-forming galaxies?” Yu, Shi, Chen et al. MNRAS, 486, 4463 (2019)
- “An early-type galaxy with an inner star-forming disc” Li, Shi, Chen et al. MNRAS, 480, 1705 (2018)