



# Jianhang CHEN

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Karl-Schwarzschild-Strasse 2

85748, Garching bei München, Germany

## 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**).
- **NEOMA** Summer 2020, S20BB: *Searching for molecular gas in HI-rich red spirals*, 2.8 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, CoI: Jianhang Chen).
- **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, CoI: Jianhang Chen).
- **VLA** 2020B, 20B-180: *Off-nuclear star formation in a gas-rich low-mass S0 galaxy*, 27 hrs, (PI: Zhengyi Chen, CoI: Jianhang Chen).
- **NOEMA** Summer 2020, S20CK: *Exploiting a snapshot survey of the 3,083 reddest Herschel sources to reveal distant protoclusters*, 26 hrs, (PI: Vinodiran Arumgam, CoI: Jianhang Chen).
- **IRAM30m** Summer 2020, 062-20: *Do Changing-look AGNs reside in the gas-rich environment?*, 23.5 hrs, (PI: Xiaoling Yu, CoI: Jianhang Chen).

### Observing Experience:

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

## RESEARCH EXPERIENCE

### 11th NOEMA Interferometry School

Winter School

21-25 Nov. 2021

Grenoble, France

### Short term visit, Durham University/Physics department

Host: Prof. Mark Swinbank Topic: dynamical modeling

14-24 Sep. 2022

Durham, UK

<b>Astrophysics, Formation and Evolution of Galaxy cluster Across Cosmic Time</b> Winter School	23 Nov.-1 Dec. 2021 Tenerife, Spain
<b>10th IRAM 30-meter School on Millimeter Astronomy</b> Winter School	15-23 Nov. 2021 Online
<b>Astrostatistics and R training</b> The 2nd East Asian Astrostatistics International Conference (EAAIC2018)	09-13 Jul. 2018 Nanjing, China
<b>CONFERENCE AND SEMINAR TALKS</b>	
<b>ALMACAL IX: multi-band ALMA survey for dusty star-forming galaxies</b> A half-century of millimeter and submillimeter astronomy	15–23 Dec. 2022 Miyakojima, Japan
<b>ALMACAL: Number counts and the resolved fractions of the CIB</b> Meeting of ALMA Young Astronomers	3–4 Mar. 2022 Online
<b>Submillimetre number counts</b> 12th IMPRS Symposium	5–6 Nov. 2021 Garching, Germany
<b>The spatial extension of AGN narrow line regions</b> MaNGA Collaboration Meeting	1–4 Apr. 2019 Oxford, UK
<b>POSTERS</b>	
<b>ALMACAL: A ‘free’ submillimetre galaxy survey</b> PoSTER 2022 - Galaxy Evolution (Best poster award)	3–5 May. 2022 Online
<b>ALMACAL: Hunting for regions over-dense in SMGs</b> XXXII Canary Islands Winter School of Astrophysics	23 Nov.–1 Dec. 2021 Tenerife, Spain
<b>COMMUNITY INVOLVEMENT</b>	
<b>Scientific Assistant at ESO OPC P110</b> Helping to organise pannel discussion	May. 2022
<b>Scientific Assistant at ESO OPC P109</b> Helping to organise pannel discussion	Nov. 2021
<b>Organisor of student session of Munich Joint Astronomy Colloquium</b> Helping to coodinate the discussion between students and the speaker	Nov. 2021
<b>Member of LOC for the 11th IMPRS Symposium</b> Helping to organise meeting schedule	May 2021
<b>Scientific referee for Publications of the Astronomical Society of Japan</b>	2020
<b>AWARDS AND SCHOLARSHIP</b>	
<b>International Max-Planck Research Scholarship (IMPRS) on Astrophysics</b> Grant for PhD study	2020-2023
<b>Excellence Scholarship</b> Nanjing University	Spring 2019
<b>Outstanding Graduates Award</b> Lanzhou University	Spring 2017
<b>National Encouragement Scholarship</b> Merit based scholarship for colleage students in China	2015,2016
<b>The First Prize Scholarships</b> Lanzhou University	Spring 2014

## SKILLS

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**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

## PUBLICATIONS

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### 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), arXiv:2210.09329
- “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)