

# Yang Yang

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## Employment

- 2022–present **Postdoctoral Researcher**, *Purple Mountain Observatory, Chinese Academy of Sciences*, Nanjing, China  
Contact: Dr. Jiang-tao Li
- 2021–2022 **Postdoctoral Researcher**, *Nanjing University*, Nanjing, China  
Contact: Dr. Zhinyuan Li
- 2017–2021 **Postdoctoral Researcher**, *Shanghai Astronomical Observatory*, Shanghai, China  
Contact: Dr. Zhiqiang Shen

## Education

- 2010–2017 **Ph.D. in Astrophysics**, *School of Astronomy & Space Science*, Nanjing University  
Thesis: A Radio Study of Nearby Low-luminosity Active Galactic Nuclei with Interferometric Observations, Advisor: Dr. Zhiyuan Li

## Other Research Experience

- 2014 **Visiting Research Student**, *Queen's University*, Kingston, Canada  
Contact: Judith Irwin
- 2011 **Visiting Research Student**, *National Radio Astronomy Observatory*, Socorro, NM  
Contact: Sjouwerman, Loránt O.

## Accepted Observing Proposals

Data	Facility	Time	proposal
2023	VLA	30 hrs	Molecular gas in galaxies anchored by CIV absorbers in HE II reionization epoch <b>(PI)</b>
2023	VLA	6 hrs	Radio emission from a microquasar candidate <b>(PI)</b>
2023	VLA	6.5 hrs	Are bubbles blowing out along the galaxies disk in NGCX <b>(PI)</b>
2023	VLA	112 hrs	Extended HI Disk Around Massive Spiral Galaxies <b>(PI)</b>
2023	eMERLIN	24 hrs	Searching for the radio emission from the nucleus of M31 with e-MERLIN
2022	VLA	22 hrs	Completion of CHANG-ES S-band
2022	VLA	8 hrs	The Nuclear Bubble of the Virgo Cluster Galaxy NGC 4438
2022	VLA	6 hrs	Exploring the Radio Emission from M31*
2022	JCMT	2.1 hrs	Pilot study of the star formation activity in CHANG-ES galaxies via a high-J CO line
2021	FAST	30 hrs	Deep Mapping of Diffuse HI in M86 group <b>(PI)</b>
2020	VLA	6 hrs	Exploring a radio outflow from the quiescent supermassive black hole in M32
2017	TMRT	8 hr	Class I methanol maser observation with Tianma 65m Radio telescope in Q band (co-P)
2016	VLBI	20 hrs	Dissecting the compact radio emission from the nucleus of M31 with VLBA
2015	VLA	28 hrs	high-resolution follow-up study of radio jets in CHANG-ES galaxies <b>(PI)</b>

## Participated Large Proposals

2014–Present **CHANG-ES (Continuum Halos of Nearly Galaxies – an EVLA Suvery)**, *PI: Judith Irwin*, Queen's University, Kingston, Canada

## Research Interests

AGN feedback, Nearby galaxies, Radio jet, Magnetic field, Neutral H I gas, Circumgalactic medium, High-redshift quasar.

## Funding as PI

- 2023 National Science Fund for Young Scholars (CNY: 300,000)
- 2019 Shanghai Sailing Program (CNY: 200,000)

## Skill

- Proficient in Linux and macOS operating systems.
- Experienced in shell scripting and system administration in Linux environment. Experienced in setting up and maintaining Linux server for team-based work environment and data security.
- Familiar with Python programming skills, including data analysis and visualization
- Experience with IDL programming language for scientific data analysis.
- Proficient in astronomy data reduction and analysis software: CASA, CARTA, and ds9.

## Publications

### Refereed Publications

**Publications at ADS:** <https://ui.adsabs.harvard.edu/public-libraries/2VuJvgLBQSOiqPquXY8b9g>

- 11 Jiang-Tao Li, Wei Sun, Li Ji, **Yang Yang**, *Pressure Balance and Energy Budget of the Nuclear Superbubble of NGC 3079*. 2024, accepted for publication in ApJ, arXiv:2404.03879
- 10 **Yang Yang**, Jiang-tao Li, Theresa Wiegert, Zhiyuan Li, Fulai Guo, Judith Irwin, Q. Daniel Wang, Ralf-Juergen Dettmar, Rainer Beck, Jayanne English, Li Ji, *CHANG-ES. XXX. 10 kpc Radio Lobes in The Sombrero Galaxy*. 2024, accepted for publication in ApJ, arXiv:2403.16682
- 9 Jiang, Yan; Li, Jiang-Tao; Gao, Yu ; Bregman, Joel N. ; Ji, Li ; Jiang, Xue-Jian; Tan, Qing-Hua; Wang, Jian-Fa; Wang, Q. Daniel; **Yang Yang**, *CO-CHANGES - I. IRAM 30-m CO observations of molecular gas in the sombrero galaxy*. 2024, **MNRAS**, **528**, 4160J
- 8 Peng, Sijia; Li, Zhiyuan; Sjouwerman, Loránt O.;**Yang Yang**; Jiang, Wu; Shen, Zhi-Qiang, *Searching for Radio Outflows from M31\* with VLBI Observations*. 2023, **ApJ**, **953**, 12P
- 7 Li, J.-T., Wang, Q. D., Wiegert, T., Bregman, Joel N., Beck, Rainer, Damas-Segovia, Ancor, Irwin, Judith A., Ji, Li, Stein, Yelena, Sun, Wei, **Yang Yang**, *CHANG-ES XXIX: the sub-kpc nuclear bubble of NGC 4438*. 2022, **MNRAS**, **515**, 2483L

- 6 **Yang Yang**, Judith Irwin, Jiangtao Li, Theresa Wiegert, Q. Daniel Wang, Wei Sun, A. Damas-Segovia, Zhiyuan Li, Zhiqiang Shen, Rene A. M. Walterbos, Carlos J. Vargas, *CHANG-ES. XXIV. First Detection of A Radio Nuclear Ring and Potential LLAGN in NGC 5792*. 2022, **ApJ**, **927**, **11P**
  - 5 Eric S. Perlman, Eileen T. Meyer, Q. Daniel Wang, Qiang Yuan, Richard Henriksen, Judith Irwin, Jiangtao Li, Theresa Wiegert, Haochuan Li, and **Yang Yang**, *Lightcurve Evolution of the nearest Tidal Disruption Event: A late-time, radio-only flare* . 2021, **ApJ**, **925**, **143P**
  - 4 Peng, Sijia; Li, Zhiyuan; Sjouwerman, Loránt O.; **Yang, Yang**; Xie, Fuguo; Yuan, Feng, *Resolving the Nuclear Radio Emission from M32 with the Very Large Array*. 2020, **ApJ**, **894**, **61P**
  - 3 Irwin, Judith A.; Henriksen, Richard N.; WeŻgowiec, Marek; Damas-Segovia, Ancor; Wang, Q. Daniel; Krause, Marita; Heald, George; Dettmar, Ralf-Jürgen; Li, Jiang-Tao; Wiegert, Theresa; Stein, Yelena; Braun, Timothy T.; Im, Jisung; Schmidt, Philip; Macdonald, Scott; Miskolczi, Arpad; Merritt, Alison; Mora-Partiarroyo, S. C.; Saikia, D. J.; Sotomayor, Carlos; **Yang, Yang**, *CHANG-ES - XI. Circular polarization in the cores of nearby galaxies*. 2018, **MNRAS**, **474**. **5057**
  - 2 **Yang, Yang**; Li, Zhiyuan; Sjouwerman, Loránt O.; Feng Yuan, Zhi-Qiang Shen, *Very Large Array Multiband Monitoring Observations of M31\**. 2015, **ApJ**, **845**, **140**
  - 1 **Yang, Yang**; Li, Zhiyuan; Sjouwerman, Loránt O.; Wang, Q. Daniel; Gu, Qiusheng; Kraft, Ralph P.; Yuan, Feng, *Detection of a Compact Nuclear Radio Source in the Local Group Elliptical Galaxy M32*. 2015, **ApJL**, **807**, **L19**
- in Preparation
- 1 **Yang, Yang**, et al., *HIMALAYA. probing the extended HI gas disk of MAssive gaLaxies bY observAtional study*. in preparation
  - 2 **Yang, Yang**, CHANG-ES members, et al., *Whether bubbles are blowing out along the galaxy disk in NGC XX?*. to be determined