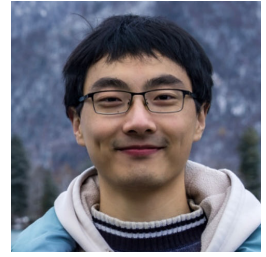


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Education

- 2021 – present 📖 **Ph.D. student, School of Astronomy and Space Science, Nanjing University**
Thesis goal: *Multi-scale kinematics and dynamics of interstellar medium in galaxies*
Supervisor: Zhi-Yu Zhang
- 2017 – 2021 📖 **B.Sc., School of Astronomy and Space Science, Nanjing University**
Thesis title: *Atomic gas kinematics of supernova remnant IC 443*
Supervisor: Zhi-Yu Zhang

Visitor Experience


- Sep 23, 2023 – Sep 30, 2023 📖 **Visitor**, Arcetri Astrophysical Observatory, Florence, Italy
Host: Federico Lelli
- Oct 1, 2023 – Dec 22, 2023 📖 **Early-Career Scientific Visitor**, European Southern Observatory (ESO), Garching bei München, Germany
Host: Carlos De Breuck

Research Publications




Journal Articles

- 1 L. Lin, Z.-Y. Zhang, and Coauthors, “Inadequate turbulent support in low-metallicity molecular clouds,” *Under review at Nature Astronomy*,
- 2 F. Li, Z.-Y. Zhang, J. Wang, G. Luo, L. Lin, and J. Zhou, “Dense gas properties around the centre of the Circinus galaxy,” *Mon. Not. R. Astron. Soc.*, vol. 527, no. 1, pp. 531–543, Jan. 2024. [DOI](#): 10.1093/mnras/stad3241.
- 3 Y. Sun, Z.-Y. Zhang, J. Wang, *et al.*, “An improved method to measure $^{12}\text{C}/^{13}\text{C}$ and $^{14}\text{N}/^{15}\text{N}$ abundance ratios: revisiting CN isotopologues in the Galactic outer disc,” *Mon. Not. R. Astron. Soc.*, vol. 527, no. 3, pp. 8151–8192, Jan. 2024. [DOI](#): 10.1093/mnras/stad3643. [arXiv](#): 2311.12971 [astro-ph.GA].
- 4 Y. Deng, Z.-Y. Zhang, P. Zhou, *et al.*, “Multiple gas phases in supernova remnant IC 443: mapping shocked H_2 with VLT/KMOS,” *Mon. Not. R. Astron. Soc.*, vol. 518, no. 2, pp. 2320–2340, Jan. 2023. [DOI](#): 10.1093/mnras/stac3139. [arXiv](#): 2210.16909 [astro-ph.GA].
- 5 F. Lelli, Z.-Y. Zhang, T. G. Bisbas, *et al.*, “Cold gas disks in main-sequence galaxies at cosmic noon: Low turbulence, flat rotation curves, and disk-halo degeneracy,” *Astron. Astrophys.*, vol. 672, A106, A106, Apr. 2023. [DOI](#): 10.1051/0004-6361/202245105. [arXiv](#): 2302.00030 [astro-ph.GA].
- 6 G. Luo, Z.-Y. Zhang, T. G. Bisbas, *et al.*, “Dependence of Chemical Abundance on the Cosmic-Ray Ionization Rate in IC 348,” *Astrophys. J.*, vol. 942, no. 2, p. 101, Jan. 2023. [DOI](#): 10.3847/1538-4357/aca657. [arXiv](#): 2211.13380 [astro-ph.GA].
- 7 L. Zhang, Z.-Y. Zhang, J. W. Nightingale, *et al.*, “Discovery of a radio jet in the Cloverleaf quasar at $z = 2.56$,” *Mon. Not. R. Astron. Soc.*, vol. 524, no. 3, pp. 3671–3682, Sep. 2023. [DOI](#): 10.1093/mnras/stad2069. [arXiv](#): 2212.07027 [astro-ph.GA].

Conference Proceedings

- 1 C. De Breuck, B. Emonts, W. Wang, *et al.*, “ALMA observations of high redshift radio galaxies,” in *ALMA at 10 years: Past, Present, and Future*, Dec. 2023, 50, p. 50.  DOI: 10.5281/zenodo.10244516.

Skills

- | | | |
|-----------|---|--|
| Languages |  | Mandarin Chinese (Native), English (Fluent). |
| Coding |  | Python, Fortran, C++, \LaTeX , HTML, ... |
| Sports |  | Table tennis (ping-pong, advanced), Swimming (proficient), Basketball (competent), Badminton (competent), Tennis (novice), ... |