Pin-jian Chen

Email | Website | ORCID

Education

National Astronomical Observatories, CAS (NAOC) **Beijing**
PhD in Astrophysics; Advisor: Xiaodian Chen *Sep 2024 – Expected June 2029*

-Research Interests:

Stellar populations, structures and evolutionary history of Local Group galaxies; Late stage evolution of low- and intermediate-mass stars (post-AGB, planetary nebulae, and white dwarfs); Machine learning's application in astronomy

Department of Astronomy, Yunnan University **Kunming**
Bachelor in Astronomy; Advisor: Bingqiu Chen *Sep 2020 – June 2024*

-Selected Awards & Honors:

- First Prize Scholarship (Annual), YNU, 2021, 2022, 2023
- Qing-Lai Xiong Astronomy Special Scholarship (Sponsored by YNAO), First Prize (1 recipient), 2021, 2022
- Excellent Graduate of Yunnan Province, 2024; Excellent Bachelor Thesis, YNU, 2024
- Undergraduate Honor Certificate (20 recipients across the university), YNU, 2024

-Programs:

Member of Elite Class for Astronomy

Publications

1. X.-W. Zhang, B.-Q. Chen*, **P.-J. Chen**, et al., *The rotation curve and mass distribution of M31*, MNRAS, 528, 2653
2. **P.-J. Chen**, X. Fang*, X.-D. Chen, J.-F. Liu, *Periodic Variability of the Central Stars of Planetary Nebulae Surveyed through the Zwicky Transient Facility*, ApJ, 980, 227
3. **P.-J. Chen**, B.-Q. Chen*, X. Fang*, et al., *A Comprehensive Catalog of Emission-line Nebulae, Star Clusters, and Supergiants in M31 from the LAMOST Spectroscopic Survey*, ApJ, 169, 174
4. B.-S Zhang, B.-Q. Chen*, H.-B. Yuan, **P.-J. Chen** et al., *Identification of Star Clusters in M31 from PAndAS Images Based on Deep Learning*, ApJS, 278, 16.

* indicates corresponding author

Conferences & Workshops

1. Annual Academic Conference of Yunnan Astronomical Society, Puer, Yunnan, China, Sep 16-19, 2023
   Contributed talk: Construction of LAMOST-M31 Catalog and Mass Determination of M31, *excellent talk*

Observational Experience

1. 2 nights with Hale 5.1-m Telescope at Palomar Observatory, remote, 2023 (PI: Bingqiu Chen)
2. 3 nights with Hale 5.1-m Telescope at Palomar Observatory, remote, 2024 (PI: Bingqiu Chen)
3. 45 hours with 10.4 m Gran Telescopio Canarias (GTC), remote, 2024-2025 (PI: Rubén García-Benito)

Skills

Language Abilities: Chinese (Mother tongue), English (Fluent)
Programming Languages: Python, LaTeX, HTML, Matlab
Professional Software: IRAF/PyRAF, DS9