

Chenyang Ji

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Research Interest

Spectroscopic Study on Exoplanets:

Detection (radial velocity and transit), exoplanet atmospheres of giant planets;

Planet-hosting Stars:

chemical abundances, planet-star relationship.

Education

2023.09 - now	PhD program	Astronomy	Tsinghua University, Beijing, China
Advisor: Sharon Xuesong Wang, reference: https://sharonxuesongwang.wordpress.com/			
2019.09 - 2023.06	Bachelor of Science	Physics	Northwest University, Xi'an, China

Publications

2. The Impact of Fiber Cross Contamination on Radial Velocity Precision

Chenyang Ji, Sharon Xuesong Wang, et al, *PASP*, 2025, submitted

1. Planets Around Solar Twins/Analog (PASTA) I.: High precision stellar chemical abundance for 17 planet-hosting stars and the condensation temperature trend

Qinghui Sun, Sharon Xuesong Wang, Tianjun Gan, **Chenyang Ji**, and other 29 coauthors, 2024, *ApJ*, 980, 179

Experiences

2024 PKU PhD Forum	KIAA, Peking University, 2024.11
<i>The Impact of Fiber Cross Contamination on Radial Velocity Precision</i> , Poster	
2024 China-Spain Bilateral Workshop	Zhuhai, China, 2024.11
<i>The Impact of Fiber Cross Contamination on Radial Velocity Precision</i> , Presentation	
2024 Annual Meeting of the Chinese Astronomical Society	Hangzhou, China, 2024.10
<i>The Impact of Fiber Cross Contamination on Radial Velocity Precision</i> , Poster	
Observational Astronomy	Tsinghua University, Spring 2024
With Prof. Sharon X. Wang, Teaching Assistant	
TESS Science Conference III	Boston, U.S., 2024.8
<i>TSASS I. Solar Depletion Pattern of Refractory Elements Among 17 Analogs</i> , Poster	
Sagan Summer Workshop 2024	Pasadena, U.S., 2024.7

Tracing out the orbits of the planets around HR 8799, Attendee

Astronomical Big Data Exploration Camp II

Kunming, China, 2024.7

Raw data reduction of high-resolution spectra, [Presentation](#), [LOC](#)

Exoplanets & Planet Formation Workshop 2023

Beijing, China, 2023.12

Radial Velocity Precision of CHORUS with Different Pupil Slicing Designs, [Poster](#), [LOC](#)

The Lin-Bridge Exoplanet Symposium

Nanjing, China, 2023.8

Investigating Factors Affecting Radial Velocity Precision Using GTC-CHORUS Spectral Data, [Presentation](#)

Astronomical Big Data Exploration Camp I

Kunming, China, 2023.7

Planet around a Metal-poor Star, Attendee

Telescope Time & Observation

6.5m Magellan Clay Telescope - MIKE, Las Campanas Observatory, Chile

2 nights as PI

remote, 2024.12 & 2025B

1 night as co-I

remote, 2024.5

Skills

Basic Coding

Python (frequently-used: NumPy, Matplotlib, astropy, pandas, etc);

Software

AstroImageJ (for photometry), PICASO (for exoplanet atmosphere simulation), RadVel (for exoplanet RV fitting);

Data Processing

Raw data reduction of high-resolution spectroscopy.

June 10, 2025