Ruizhi **Zhan**

ruizhi.zhan@stu.pku.edu.cn | ruizhizhan.github.io | 0009-0005-4936-7289

Education

Ph.D. in Atmospheric Sciences — *September 2022 - June 2027, expected*
Department of Atmospheric and Oceanic Sciences, School of Physics, Peking University — *Beijing, China*

- Advisor: Prof.Daniel D.B. Koll

B.S. in Physics — *September 2018 - June 2022*
School of Physics and Technology, Wuhan University — *Wuhan, Hubei province, China*

- Cumulative GPA: 3.87/4.00, rank 2/27

Publications

Ruizhi Zhan and Daniel D.B. Koll. Reinterpreting the JWST Observations of 55 Cancri e with a Non-grey General Circulation Model, *in prep.*

Ruizhi Zhan, Daniel D.B. Koll and Feng Ding. Novel Atmospheric Dynamics shape Inner Edge of Habitable Zone around White Dwarfs, *The Astrophysical Journal*, 971, 125, https://iopscience.iop.org/article/10.3847/1538-4357/ad54c1

Selected Awards

Cushman & Wakefield Scholarship — *October 2024*
30 students per year — *Peking University*

Outstanding Undergraduate Graduate — *June 2022*
top 10% — *Wuhan University*

National Scholarship — *November 2021*
top 1% — *Wuhan University*

First-class Scholarship of Wuhan University — *October 2021*
top 5% — *Wuhan University*

Talks & Presentations

Zhan R, D.D.B. Koll. Modeling the Atmosphere of 55 Cancri e with a Non-grey General Circulation Model. — *EGU 2025 conference*
Oral presentation — *Vienna, Austria, 1 May 2025*

Zhan R, D.D.B. Koll. Non-Grey Global Climate Model Reveals Atmospheric Heat Redistribution on Hot Rocky Exoplanets. — *AGU 2024 conference*
Oral presentation — *Washington D.C., U.S., 10 Dec, 2024*

Zhan R, D.D.B. Koll. Modeling the Atmosphere of 55 Cancri e with a Non-grey General Circulation Model. — *PhD Student Forum: Frontiers in Modern Astronomy*
Oral presentation — *Beijing, China, 8 Dec, 2024*

Zhan R, D.D.B. Koll and F. Ding. Novel Atmospheric Dynamics shape Inner Edge of Habitable Zone around White Dwarfs. — *2024 China Planetary Science Conference*
Oral presentation — *Nanjing, China, 10 Oct, 2024*

Zhan R, D.D.B. Koll and F. Ding. Novel Atmospheric Dynamics shape Inner Edge of Habitable Zone around White Dwarfs. — *Invited Talk, Wuhan University*
Oral presentation — *Wuhan, China, 31 Mar 2024*

Zhan R, D.D.B. Koll and F. Ding. Novel Atmospheric Dynamics shape Inner Edge of Habitable Zone around White Dwarfs. — *Exoplanets & Planet Formation Workshop 2023*
Poster presentation — *Beijing, China, 16 Dec, 2023*

Zhan R, D.D.B. Koll. Novel Atmospheric Dynamics shape Inner Edge of Habitable Zone around White Dwarfs. — *Exoclimes VI conference*
Poster presentation — *Exeter, U.K., 29 Jun 2023*

Zhan R, D.D.B. Koll. The Habitable Zone Inner Edge Around White Dwarfs. — *AGU 2022 conference*
Poster presentation — *online, 16 Dec 2022*

Teaching

Teaching Assistant, Fundamental Planetary Science — ***Peking University*** *Fall 2023*

Teaching Assistant, Fluid Dynamics — ***Peking University*** *Spring 2024*

Competitive Observation Programs

(**Co-I**) *A Search for Life Around Two Dead Stars.*
James Webb Space Telescope (JWST) Cycle 4 Guest Observers Program 7564
Principal Investigator: Dr. Limbach, Mary Anne

Skills

Programming	Python (Extensively) | LaTeX (Extensively) | shell | C++ | Fortran | Typst
Languages	Mandarin Chinese (native) | English (Proficient)
Climate models	ExoCAM | ExoRT | Exo-k | Isca | SOCRATES
Tools	NASA-PSG

Service

Distinguished Lectures on Planetary Sciences "Atmospheric Dynamics of Giant Planets, Terrestrial Planets, and Earth" — ***Peking University*** *Aug 2023*
Local Organising Committee (LOC) Member

Atmospheres, Climates, and Habitability of Mars and Other Planets — ***Peking University*** *Aug 2024*
Local Organising Committee (LOC) Member