



Contact Information

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Education

PhD in Astrophysics [2025 – Present]
Sun Yat-sen University, Zhuhai
Supervised by Professor Shang-Fei Liu
BS in Physics [2021 - 2025]
Sun Yat-sen University, Zhuhai

Publications

1. Misaligned circumbinary discs around unequal-mass eccentric binaries: alignment, morphology, and binary accretion variability
Ruiqi Yang, Jeremy L. Smallwood, Hongping Deng, Ya-Ping Li, Alessia Franchini, Ruobing Dong, Shang-Fei Liu, 2026, *MNRAS*, DOI: [10.1093/mnras/stag731](https://doi.org/10.1093/mnras/stag731)

Awards and Grants

Excellent Prize of PKU Undergraduate Astronomy Symposium	[2025]
First Prize of Linbridge Exoplanet Undergraduate Forum	[2025]
SYSU Outstanding Undergraduate Thesis Award	[2025]
SYSU Outstanding Graduate Award	[2025]
National Scholarship for Undergraduate Students	[2024]
SYSU First Prize of Outstanding Student Scholarship	[2024]
SYSU Excellent Innovation and Entrepreneurship Program	[2024]
Third Prize of Linbridge Exoplanet Undergraduate Forum	[2024]
SYSU Second Prize of Outstanding Student Scholarship	[2023]
SYSU Special Scholarship	[2022]

Research Experience

Protoplanetary Disk and Planet Formation Summer School & Workshop, Beijing, China
[Aug. 2024]
Initiated the project “Misaligned circumbinary discs around unequal-mass eccentric binaries: alignment, morphology, and binary accretion variability” in collaboration with Jeremy L. Smallwood, Hongping Deng, Ya-Ping Li, Alessia Franchini, Ruobing Dong, and Shang-Fei Liu. The work was published in *MNRAS* in 2026, DOI: [10.1093/mnras/stag731](https://doi.org/10.1093/mnras/stag731).
Hydrodynamic Simulation of Protoplanetary Disks [2023]
Conducted ATHENA++ simulations of protoplanetary disks with varying disk parameters, analyzed the resulting disk



structures, and extended the study from single-planet to multi-planet systems.

Hydrodynamic Simulation of the Circumbinary Disks

[2023-2024]

Conducted ATHENA++ simulations of circumbinary disks over a range of physical parameters and analyzed their dynamical evolution. This project was recognized as an excellent school-level project in SYSU's 2024 National Innovation and Entrepreneurship Program.

Technical Skills

Programming Languages: Python, C++, Fortran, MATLAB, Mathematica, Shell Script, HTML

Simulation Code: ATHENA++ (Grid-based), PHANTOM (SPH), GIZMO (MFM/MFV), MCFOST (Radiative Transfer), REBOUND (N-body), SPLASH (Visual), VisIt (Visual), ParaView (Visual)

Documentation and Typesetting: L^AT_EX, Markdown

Talks

Contributed Talks

2026 National Planetary Science conference, Guangzhou, China [Mar. 2026]

PKU Undergraduate Astronomy Symposium, Online [Sep. 2025]

Exoplanets & Planet Formation Workshop, Kunming, China [Aug. 2025]

The Frontier Symposium on Planetary Science and Deep Space Exploration of the Chinese Astronomical Society & 2024 Annual Academic Conference, Xiamen, China [Dec. 2024]

2024 National Planetary Science conference, Naging, China [Oct. 2024]

Exoplanet Group Meeting of SYSU, Zhuhai, China [Oct. 2024]

Protoplanetary Disk and Planet Formation Summer School & Workshop, Beijing, China [Aug. 2024]

Linbridge Exoplanet Forum, Zhuhai, China [Jul. 2024]

Code/Astro 2024 workshop, Online [Jul. 2024]

Posters

International Conference on Exoplanets and Planet Formation, Shanghai, China [Dec. 2025]

SYSU Excellent Innovation and Entrepreneurship Program, Zhuhai, China [Nov. 2024]

Extracurricular Activities (selected)

Committee Member, Astronomy Club, SYSU [2021-Present]

Zhongzhu Cup Tennis Match of SYSU, Quarterfinal [May. 2024]

Vice captain of the running team, SPA, SYSU [2023-2024]

Captain of the running team, SPA, SYSU [2022-2023]

Finished 2026 Jining Half-Marathon [Apr. 2026]

Finished 2025 Hengqin Half-Marathon [Dec. 2025]

Finished 2023 Zhaoqing Half-Marathon [Nov. 2023]

Finished 2023 Jiangmen Half-Marathon [Dec. 2023]

Volunteer Experiences (selected)

I volunteered at the China Science and Technology Museum, providing guidance and answering questions for visitors. [Aug. 2024]



Ruiqi Yang (杨锐祺)



I took part in the astronomy outreach activity at Beijing Normal University Zhuhai campus, introducing astronomy knowledge to students from other majors. *[Apr. 2024]*

I participated in the public outreach activity in Zhuhai, where I explained astronomical knowledge to children in the community. *[Oct. 2022]*