

# Zeyu Gao

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## Research Interests

- *Exploring the beauty of galaxies across different scales through observations and simulations.*
- **Galaxy Evolution:** quenching, metal enrichment, scaling relations.
- **Stellar Population:** star formation history, SED fitting.
- **Galaxy-Halo Connection:** how halo influence the galaxy properties.

## Education

<b>Peking University</b> <i>Graduate student in Astrophysics</i>	Sep. 2022 – Now
◦ <b>Advisor:</b> Yingjie Peng	
<b>Nanjing University</b> <i>B.S. in Astronomy</i>	Sep. 2018 – July 2022
◦ <b>Advisor:</b> Yanmei Chen	
◦ <b>Thesis:</b> <i>Two Quenching Mechanisms in the Local Universe</i>	

## Publications

1. <b>From Halos to Galaxies. X: Decoding Galaxy SEDs with Physical Priors and Accurate Star Formation History Reconstruction</b> <a href="#">🔗</a> <i>Zeyu Gao</i> , Yingjie Peng, Kai Wang et al. [arXiv: 2408.07749] <a href="#">🔗</a>	ApJ Accepted (2024)
2. <b>From Halos to Galaxies. VI. Improved halo mass estimation for SDSS groups and measurement of the halo mass function</b> <a href="#">🔗</a> Dingyi Zhao, Yingjie Peng et al. (including <b>Zeyu Gao</b> ) [arXiv: 2408.12442] <a href="#">🔗</a>	ApJ Accepted (2024)
3. <b>Abundant Molecular Gas in the Central Region of Lenticular Galaxy PGC 39535</b> <a href="#">🔗</a> Jiantong Cui, Qiusheng Gu, Shiyong Lu, Zhengyi Chen, Can Xu, <i>Zeyu Gao</i>	ApJ 975, 124 (2024)

## Honors and Awards


Outstanding Graduate of Nanjing University	2022
Outstanding Student	2020
NAOC Scholarship	2020
The People's Scholarship in China (1st class)	2020
National Scholarship	2019
Outstanding Student	2019

## Teaching and Service

Teaching Assistant & Guest Lecturer for <b>Galactic Physics</b> (Prof. Fangzhou Jiang)	2023 Fall
Part-time Counsellor for Undergraduates	2024 - Now
Co-organizer of the weekly Galaxy Party at KIAA	2023 - Now
Faculty Candidate Interview Committee at KIAA, Graduate Student Representative	2024




## Talks

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Lunch talk at South-Western Institute For Astronomy Research, Yunnan University (Invited) <i>Decoding Galaxy SEDs with Physical Priors and Accurate Star Formation History Reconstruction</i> 	Kunming, Aug. 2024
26th Chinese Astronomical Society Guoshoujing Symposium on Galaxies and Cosmology <i>Measuring Galaxy Properties from SED Fitting with a Physical Prior</i>	Suzhou, May 2024
CSST Symposium on Galaxies Evolution and Cosmology <i>Measuring Galaxy Properties from SED Fitting with a Physical Prior</i>	Suzhou, Nov. 2023
Annual Meeting of Jiangsu Astronomical Society <i>Two quenching mechanisms in the local universe</i>	Nanjing, July 2022

## References

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<b>Prof. Yingjie Peng</b> ✉ yjpeng@pku.edu.cn  kiaa.pku.edu.cn/info/1010/1016.htm	KIAA, Peking University
<b>Prof. Yanmei Chen</b> ✉ chenym@nju.edu.cn  astronomy.nju.edu.cn/szll/szgk/js/20190816/i13833.html	Nanjing University
<b>Prof. Fangzhou Jiang</b> ✉ fangzhou.jiang@pku.edu.cn  www.fzjiang.com	KIAA, Peking University