

PENGFEI LI

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RESEARCH INTEREST

Galaxy Formation, Large Scale Structure, and Cosmology

$\text{Ly}\alpha$ Radiative Transfer, Extended $\text{Ly}\alpha$ Halos, Galaxy Quenching

EDUCATION

University of Utah Sept. 2021 - Present

Graduate student

Advisor: Prof. Zheng Zheng

Physics and Astronomy Department

University of Science and Technology of China (USTC) Sept. 2020 - June 2021

Graduate student

Advisor: Prof. Huiyuan Wang

Department of Astronomy, School of Physical Sciences

University of Science and Technology of China (USTC) Sept. 2016 - June 2020

B.S. in Astronomy

Advisor: Prof. Huiyuan Wang

Wang Shouguan Talent Program in Astronomy,

Department of Astronomy, School of Physical Sciences

PUBLICATION

[1] **Pengfei Li**, Huiyuan Wang, H.J. Mo, Enci Wang, Hui Hong, *Characteristic Mass in Galaxy Quenching: Environmental versus Internal Effects*, 2020, ApJ, 902, 75

<https://doi.org/10.3847/1538-4357/abb66c>

[2] Ziwen Zhang, Huiyuan Wang, Wentao Luo, H.J. Mo, Zhixiong Liang, Ran Li, Xiaohu Yang, Tinggui Wang, Hongxin Zhang, Hui Hong, Xiaoyu Wang, Enci Wang, **Pengfei Li**, and JingJing-Shi, *Host and Trigger of AGNs in the Local Universe*, 2021, A&A, 650, A155,

<https://doi.org/10.1051/0004-6361/202040150>

[3] Hui Hong, Huiyuan Wang, H. J. Mo, Ziwen Zhang, Guangwen Chen, Wentao Luo, Tinggui Wang, **Pengfei Li**, Renjie Li, Yao Yao, and Aoxiang Jiang, *Dynamical Hotness, Star Formation Quenching, and Growth of Supermassive Black Holes*, 2023, ApJ, 954, 183

<https://doi.org/10.3847/1538-4357/ace96f>

ACADEMIC ACTIVITIES

Oases in the Cosmic Desert:

Understanding the Structure of the Circumgalactic Medium

Feb. 21-24, 2023

Poster: Understanding the Circum-galactic Medium by Emulating

Extended Lyman Alpha Halos

Tempe, Arizona, USA

The 23rd Guo Shoujing Galaxy Cosmology Symposium <i>Hangzhou, Zhejiang, China</i>	May 14-17, 2021
The 22nd Guo Shoujing Galaxy Cosmology Symposium Talk: Characteristic Mass in Galaxy Quenching: Internal versus Environmental Effects <i>Zhuhai, Guangdong, China</i>	Nov. 21-23, 2020
UMass Summer Internship Talk Quenching of Star Formation: Internal versus Environmental Effects <i>University of Massachusetts–Amherst</i>	July 18, 2019

OUTREACH AND SERVICE

Astronomy Summer Camp for High School Students Talk: New Views of the Cosmos from James Webb Space Telescope (JWST) <i>University of Utah</i>	June 29, 2023
REFUGES Program, Astronomy Section Six talks of 1.5 hours each. <i>University of Utah</i>	June-Aug., 2023

HONORS AND AWARDS

Swigart Summer Research Fellowship, University of Utah	May-Aug. 2022
Outstanding Student Scholarship, Grade B (10%), USTC	2018-2019
Outstanding Student Scholarship, Grade C (20%), USTC	2016-2017
Outstanding Freshman Scholarship, Grade C (20%), USTC	2016

COMPUTER SKILLS

C/C++, Python, MATLAB, L^AT_EX