

# PENGFEI LI

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INSCC Room 305, 155 S 1452 E, ◇ Salt Lake City, UT 84112, USA

## RESEARCH INTEREST

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Galaxy Formation, Large Scale Structure, and Cosmology

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

## EDUCATION

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**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

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[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

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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*

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

## OUTREACH AND SERVICE

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

## HONORS AND AWARDS

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|--------------------------------------------------------|---------------|
| 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

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C/C++, Python, MATLAB, L<sup>A</sup>T<sub>E</sub>X