

ZEFENG LI

Duffield DF.28,
Research School of Astronomy & Astrophysics,
Cotter Road, Weston Creek, ACT, Australia

zefeng.li@anu.edu.au
+61(0)478835837
<https://zidianjun.github.io>

EDUCATION & EMPLOYMENT

Ph.D., Astronomy & Astrophysics, Australian National University Oct 2019 - present
Advisor: Mark Krumholz & Emily Wisnioski ACT, Australia
Title: *spatial metallicity correlations in galaxies*

Cloudwalk Technology Oct 2018 - May 2019
Algorithm Engineer on Optical Character Recognition (OCR, see [the arXiv paper](#)) Shanghai, China

B.S., Astronomy, Peking University Sept 2013 - Jul 2017
Advisor: Xue-Bing Wu Beijing, China

VISITING EXPERIENCES

Undergraduate Visiting Research, University of Arizona Mar 2016 - Jul 2016
Aadvisor: Ian McGreer & Xiaohui Fan Tucson, the United States

Summer Research, Australian National University Oct 2017 - Jan 2018
Advisor: Christian Wolf & Fuyan Bian ACT, Australia

AWARDS

Summer Research Scholarship, Oct, 2017
Weiming Scholarship for outstanding thesis, Peking University Jul, 2017
Lin-Qiao Scholarship for undergraduate research, Peking University Oct, 2016
Shenkeqi Scholarship, Peking Univeristy Sept, 2014

CONFERENCES & TALKS

Poster, IAU 377: Early Disk-Galaxy Formation from JWST to the Milky Way Feb, 2023
Poster, From Stars to Galaxies II Jun, 2022
E-poster, KIAA Forum on Gas in Galaxies Nov, 2021
E-poster, MOS-Galaxy STScI workshop May, 2021
Oral talk, Annual Conference of the Chinese Astronomical Society Nov, 2016

RESEARCH COLLABORATIONS & PROFESSIONAL EXPERIENCES

MUSE and ALMA Unveiling the Virgo Environment (MAUVE): Co-I
Spatial variations of a metal field in the disk settling epoch (an ESO ERIS proposal): Co-I
6-m class telescope (Multiple Mirror Telescope): 5 nights
2-m class telescope (Bok Telescope, Siding Spring 2.3m Telescope): 18 nights
Programming: Python and C (see [my Github homepage](#))

PUBLICATIONS

All the published papers can be found in [my ORCID homepage](#), among which astronomy-related refereed papers can be found in [the ADS library](#) (h-index = 9).

First-author:

- **Li, Z.**, Wisnioski, E., Mendel, J. T., Krumholz, M. R., Kewley, L. J., López-Cobá, C., Sánchez, S. F., Anderson, J. P., Galbany, L. 2022, [MNRAS](#), accepted
Spatial metallicity distribution statistics at ~ 100 pc scales in the AMUSING++ nearby galaxy sample
- **Li, Z.**, Krumholz, M. R., Wisnioski, E., Mendel, J. T., Kewley, L. J., Sánchez, S. F., Galbany, L. 2021, [MNRAS](#), 504, 5496
Detection of metallicity correlations in 100 nearby galaxies
- **Li, Z.**, McGreer, I. D., Wu, X.-B., Fan, X., Yang, Q. 2018, [ApJ](#), 861, 6
The Ensemble Photometric Variability of Over 10^5 Quasars in the Dark Energy Camera Legacy Survey and the Sloan Digital Sky Survey

Co-author:

- Di, Y., **Li, Z.**, Amelin, Y. 2021, [Journal of Analytical Atomic Spectrometry](#), 36: 1489-1502
- Kinemuchi, K. + 18 authors + **Li, Z.** + 11 authors 2020, [ApJS](#), 250, 10
- Di, Y., Tian, W., Chen, M., **Li, Z.**, Chu, Z., Liang, J. 2020, [American Mineralogist](#), 105 (2): 149-161
- Wolf, C. + 5 authors + **Li, Z.** + 2 authors 2020, [MNRAS](#), 491, 1970
- Grier, C. J. + 22 authors + **Li, Z.** + 10 authors 2019, [ApJ](#), 887, 1
- Zou, H. + 25 authors + **Li, Z.** + 21 authors 2019, [ApJS](#), 245, 4
- Shen, Y. + 23 authors + **Li, Z.** + 10 authors 2019, [ApJ](#), 883, 14
- Zou, H. + 15 authors + **Li, Z.** + 11 authors 2017, [AJ](#), 153, 276
- Wang, F. + 7 authors + **Li, Z.** + 13 authors 2017, [ApJ](#), 839, 27
- Yang, J., + 11 authors + **Li, Z.**, + 3 authors 2017, [AJ](#), 153, 184