

# ZEFENG LI

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## EDUCATION

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<b>Ph.D., Astronomy &amp; Astrophysics, Australian National University</b> Advisor: Dr. Mark Krumholz & Dr. Emily Wisnioski	Oct 2019 - present ACT, Australia
<b>B.S., Astronomy, Peking University</b> Advisor: Dr. Xue-Bing Wu	Sept 2013 - Jul 2017 Beijing, China
<b>Undergraduate Visiting Research Program, University of Arizona</b> Aadvisor: Dr. Ian McGreer & Dr. Xiaohui Fan	Mar 2016 - Jul 2016 Tucson, United States
<b>Summer Research Scholarship, Australian National University</b> Advisor: Dr. Christian Wolf & Dr. Fuyan Bian	Oct 2017 - Jan 2018 ACT, Australia

## WORKING EXPERIENCE

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<b>Cloudwalk Technology</b> Algorithm Engineer on Optical Character Recognition (OCR, see <a href="#">the arXiv paper</a> )	Oct 2018 - May 2019 Shanghai, China
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## PUBLICATIONS

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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= 7).

### First-author:

- **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

## CONFERENCES

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E-poster presentation, KIAA Forum on Gas in Galaxies	Nov, 2021
E-poster presentation, MOS-Galaxy STScI workshop	May, 2021
Oral talks, Annual Conference of the Chinese Astronomical Society	Nov, 2016

## SKILLS

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Observing experience: Bok Telescope (14 nights), Siding Spring 2.3m Telescope (4 nights), and the Multiple Mirror Telescope (5 nights).

Language abilities: Chinese (native), English (fluent), and Spanish (basic reading comprehension).

Computer skills: Experienced in Python and C (see [my Github homepage](#)), tensorflow, Matlab, SQL, and iraf.