Curriculum Vitae September 3, 2017

Jiani Ding

EDUCATION

University of Arizona
 SUMMA CUM LAUDE

B.S., Astronomy and Physics

PUBLICATIONS AND POSTERS

- O **J. Ding**, Z. Cai, X. Fan, Constraining C iii] Emission in a Sample of Five Luminous z = 5.7 Galaxies, ApJL, 838, L2 (2017)
- J. Yang, X. Fan, X. Bing, ..., **J. Ding**, Discovery of 16 New z ~ 5.5 Quasars: Filling in the Redshift Gap of Quasar Color Selection., AJ, 153, 184-193 (2017)
- \circ F. Wang, X. Fan, J. Yang, ..., **J. Ding**, First Discoveries of z > 6 Quasars with the Decam Legacy Survey and Ukirt Hemisphere Survey., ApJ, 839, 27-34 (2017)
- O J. Ding, Z. Cai, X. Fan, et al. Constraining C iii] Emission in a Sample of Five Luminous z = 5.7 Galaxies, AAS Poster, Jan 2017

HONORS AND AWARDS

O Scholarships for Excellent Undergraduate

Galileo Circle Scholarship, College of Science, University of Arizona	2015,2016
Purviance Award, Physics Department, University of Arizona	2016
Weaver Research Award, Physics Department, University of Arizona	2016
The Vesto Melvin Slipher Scholarship, Astronomy Department, University of Arizona	2016
Purviance Scholarship, Astronomy Department, University of Arizona	2016
Douglass, Andrew E Scholarship, Astronomy Department, University of Arizona	2015
Langadas, Angelos C Scholarship, Astronomy Department, University of Arizona	2014

Awards for Excellent Undergraduate

Academic Year Highest Academic Distinction, College of Science, University of Arizona	2015
Dean's List with Distinction College of Science University of Arizona	2014

ACADEMIC ACTIVITIES

Talks

Talk in Inter[Stellar and Galactic] Medium Program of Studies:

University of California, Santa Cruz, CA, USA Nov 2016

- CIII] Emission Lines from Galaxies in the Early Universe

Undergraduate Physics Symposium Talk:

University of Arizona, Tucson, AZ, USA May 2015

- CIII] Emission Lines from Galaxies in the Early Universe

Observation Experience

2 nights on Bok telescope, Kitt Peak National Observatory	Jul 2015
3 nights on Bok telescope, Kitt Peak National Observatory	Mar 2016
1 night on LBT telescope	May 2016
3 nights on MMT telescope	May 2016

RESEARCH EXPERIENCE

O Research Assistant:

Constraining CIII] emission in a statistical sample of five z = 5.7 galaxies

Jul 2015 - Present

Advisor: Prof. Xiaohui Fan, Steward Observatory, University of Arizona and Dr. Zheng Cai, UCO/Lick Observatory, UC Santa Cruz

- Reducing the HST data using MultiDrizzle and measuring the fluxes of CIII] emissions using SExtractor;
- Finding the measurement on equivalent width of the CIII] emission is $4.08 \pm 2.19 \text{Å}$ in one galaxy of our sample and putting the upper limits of both fluxes and equivalent widths on the galaxies that do not detect CIII] emissions;
- Summarizing and discussing the astrophysics implications of the results in a paper submitted to ApJL.

O Research Assistant:

Studying the quasar host galaxy through an associate DLA system

Jul 2016 - Present

Advisor: Prof. Xiaohui Fan, Steward Observatory, University of Arizona and Dr. Zheng Cai, UCO/Lick Observatory, UC Santa Cruz

- Using MultiDrizzle package to reduce the HST data and using IRAF to form a PSF for GALFIT fitting;
- Using SExtractor to measure the photometry of the quasar host galaxy and using GALFIT to construct a two components minor merging model of the galaxy;
- Writing up results in a paper in preparation.

O Course Project:

Identifying star forming regions in M100 cluster

Mar 2015 - May 2015

Advisor: Prof. Laird Close, Steward Observatory, University of Arizona

- Selecting and deciding which galaxies we can take a high resolution image from Kuiper telescope to finish our science and using IRAF to analyze our data.

○ Research Assistant:

Analyzing the rotation period of stars from Kepler Space Telescope dataAug 2013- May 2014

Instructor: Mr. Patrick Sheehan, Steward Observatory, University of Arizona

- Analyzing the brightness variation curve of a star due to the starspots in order to determine the rotation period of that star by using PyRAF.

SKILLS

O Programming: C, PYTHON

O Software: IRAF, GALFIT, SExtractor, MultiDrizzle, LATEX

○ Language: Mandarin(Native), English(fluent), Cantonese(Native)

OUTREACH & VOLUNTEER

○ Time Step Meeting

Steward Observatory, Tucson, AZ, Sep 2015 - Present

- Being a member in "Time Step," a group focusing on professional development for undergraduates in STEM fields, also giving special support to students represented minorities.
- Giving talk "How to Study and Enjoy Life as a Astronomy and Physics Double Major" in "Time Step."

University Service

Steward Observatory, Tucson, AZ, Aug 2016

- Giving advice and directions to new coming students in student orientation.