

# ZHIYUAN MA

228 Physics Building ◊ University of Missouri ◊ Columbia, Missouri 65211

zmzff@mail.missouri.edu

## EDUCATION

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**University of Missouri, Columbia** — **Ph.D student** in Astrophysics *Aug 2012* —

Department of Physics and Astronomy; Supervisor: Prof. Haojing Yan

Candidacy since *May 2015*; Dissertation topic: **Galaxy Evolution as Seen by *Herschel***

**Nankai University** — **B.S & M.Sc** in Physics

*Jun 2009, Jun 2012*

School of Physics; Supervisor: Prof. Xinhe Meng

B.S Thesis: Cosmology of  $f(R)$  gravity

M.Sc Thesis: Models of dark fluid with bulk viscosity and their singularity/rip

## RESEARCH INTERESTS

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Extragalactic astronomy, galaxy evolution, dust obscured star formation, far-infrared observation, star formation over cosmic time, AGN and quasar.

## PROFESSIONAL EXPERIENCE

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### Observation Runs

MDM observatory, 2.4m Hiltner telescope (OSU 4k camera)

*2012, 2013, 2014*

WIYN 3.5m Observatory (pODI, ODI, WHIRC)

*2014, 2015, 2016, 2017*

### Data Reduction

CFHT MegaCam; WIYN ODI; WIYN WHIRC; *Spitzer* IRAC, MIPS; *Herschel* PACS, SPIRE

Extensive programming experience in **Python** (NumPy, SciPy, Matplotlib, Astropy, etc.), and proficient in **IRAF**, **C/C++**, **IDL**.

Other interests including Linux, Vim, L<sup>A</sup>T<sub>E</sub>X, Git, Qt, OpenGL, Django, JS, etc.

## CONFERENCES ATTENDED

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WIYN ODI-PPA Workshop, Bloomington, IN

*Aug 2016*

227th American Astronomical Society Meeting, Kissimmee, FL

*Jan 2016*

45th Mid American Regional Astrophysics Conference, Kansas City, MO

*Apr 2015*

44th Mid American Regional Astrophysics Conference, Kansas City, MO

*Apr 2014*

43th Mid American Regional Astrophysics Conference, Kansas City, MO

*Apr 2013*

## PRESENTATIONS

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Contributed talk: ODI data calibration: Challenges and Practices, *ODI-PPA workshop*

Contributed poster: Co-evolution of extreme star formation and quasar, *227th AAS meeting*

Contributed talk: Co-evolution of extreme star formation and extreme AGN, *45th MARAC*

Contributed talk: *Herschel* detected SDSS quasars: dust properties revealed by far-infrared SED, *44th MARAC*

## PUBLICATIONS

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L. Pei, M. M. Fausnaugh, and 155 others including **Z. Ma** (the AGN STORM project). “Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548.” 2017 *ApJ*, 837, 131

Haojing Yan, **Zhiyuan Ma**. “From the  $L_{IR}-T$  Relation to the Limited Sizes of Dusty Starbursting Regions at High Redshifts.” 2016 *ApJ*, 820, 16

**Zhiyuan Ma**, Haojing Yan. “Co-evolution of Extreme Star Formation and Quasar: hints from Herschel and the Sloan Digital Sky Survey.” 2015 *ApJ*, 811, 58

Haojing Yan, Mauro Stefanon, **Zhiyuan Ma**, CANDELS collaborations. “Optical-faint, Far-Infrared Bright Herschel Sources in the CANDELS Fields: Ultra-Luminous Infrared Galaxies at  $z > 1$  and the Effect of Source Blending.” 2014 *ApJS*, 213, 2

Xinhe Meng, **Zhiyuan Ma**. “Rip/singularity free cosmology models with bulk viscosity.” 2012 *EPJC*, 72, 2053