

ZHIYUAN MA

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EDUCATION

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

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

PROFESSIONAL EXPERIENCE

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, \LaTeX , Git, Qt, OpenGL, Django, JS, etc.

CONFERENCES ATTENDED

JWST Data Analysis Workshop, Baltimore, MD *Nov 2016*

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

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

M. M. Fausnaugh, and 70 others including **Z. Ma** “Reverberation Mapping of Optical Emission Lines in Five Active Galaxies.” 2017 *ApJ*, 840, 97

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