

# XIN WANG

## PERSONAL INFORMATION

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CURRENT STATUS: Graduate Student at University of California, Los Angeles  
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MAILING ADDRESS: Department of Physics and Astronomy, UCLA, Los Angeles, CA, USA 90095-1547

## EDUCATION

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SEPT. 2015– PRESENT	Department of Physics and Astronomy, UCLA   <b>towards Ph.D. in Astronomy and Astrophysics</b> Field of Interest: Spatially Resolved Spectroscopy, Chemical Evolution of Galaxies, Extragalactic Nebular Emission, Strong Gravitational Lensing. Advisors: Profs. Tommaso Treu, Tucker A. Jones
SEPT. 2013– JUN. 2015	Physics Department, University of California, Santa Barbara   <b>M.A. in Physics</b> Graduate Course Cumulative GPA: 3.96
SEPT. 2010– JUN. 2013	School of Astronomy and Space Sciences, Nanjing University   <b>M.Sc. in Astrophysics</b> Field of Interest: Precision Cosmology, Galaxy Clusters, Gamma-ray Bursts. Advisors: Profs. Yong Feng Huang, Charling Tao, Gong-Bo Zhao
SEPT. 2006– JUN. 2010	Department of Astronomy, Nanjing University   <b>B.Sc. in Astronomy</b> Weighted Average Score: 84.64/100 (overall), 87.68/100 (major); Ranking: 2 <sup>nd</sup> /26

## AWARDS AND HONORS (SELECTED)

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JUL. 2018	UCLA Richardson Travel Fund (\$1.7k)
JUN. 2018	UCLA Dissertation Year Fellowship (\$47k: stipend+tuition)
MAY 2018	Rudnick-Abelmann Fellowship, UCLA (\$2k)
APR. 2018	IAU grant for participating the XXXth General Assembly (€0.75k)
APR. 2018	AAS International Travel Grant (\$2k)
APR. 2015	AAS International Travel Grant (\$1k)
JUN. 2014	1 <sup>st</sup> Prize for Excellent M.Sc. Thesis amongst all Universities and Colleges in Jiangsu Province
SEPT. 2013	Broida Fellowship, UCSB (\$3k)
DEC. 2012	National Scholarship for Graduates (~\$4k) <i>This is the highest honorific scholarship in China conferred annually on excellent graduate students.</i>
AUG. 2010	1 <sup>st</sup> Prize for Excellent B.Sc. Thesis amongst all Universities and Colleges in Jiangsu Province
OCT. 2009	Scholarship of National Astronomical Observatories, Chinese Academy of Sciences

## TALKS AND COLLOQUIA (SELECTED)

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AUG. 2018	<b>Contributed talk</b> , @ <a href="#">Focus Meeting 7 at the XXXth IAU General Assembly</a> , Vienna, Austria
JUL. 2018	<b>Invited talk</b> , @ University of Science and Technology of China, Hefei
JUN. 2018	<b>Contributed talk with conference fellowship</b> , @ <a href="#">KIAA Forum on Gas in Galaxies</a> , Beijing, China
MAY 2018	<b>Invited talk</b> , @ 2018 Nanjing University Youth Forum, Nanjing, China
FEB. 2018	<a href="#">Colloquium talk</a> , @ IPAC, Caltech, Pasadena, CA
JAN. 2018	<a href="#">Colloquium talk</a> , @ Carnegie Observatories, Pasadena, CA
SEPT. 2017	<b>Invited talk</b> , @ Shanghai Jiao Tong University, Shanghai
SEPT. 2017	<b>Invited talk</b> , @ Nanjing University, Nanjing
SEPT. 2017	<b>Invited talk</b> , @ Tsinghua University, Beijing
AUG. 2017	<b>Contributed talk</b> , @ <a href="#">Shedding Light on the Dark Universe with Extremely Large Telescopes</a> , Lanzhou, China

- JUN. 2017 | **Contributed talk**, @ [Special Session 11 at European Week of Astronomy and Space Science](#), Prague, Czech Republic
- JAN. 2017 | **Colloquium talk**, @ Steward Observatory, University of Arizona, Tucson, AZ
- AUG. 2016 | **Colloquium talk**, @ Department of Astronomy, University of Michigan, Ann Arbor, MI
- JUN. 2016 | **Invited talk**, @ National Astronomical Observatories of China, Beijing
- JUN. 2016 | **Invited talk**, @ Nanjing University, Nanjing
- JUN. 2016 | **Invited talk**, @ Purple Mountain Observatory, Nanjing
- AUG. 2015 | **Contributed talk**, @ [Focus Meeting 22 at the XXIXth IAU General Assembly](#), Honolulu, HI
- NOV. 2012 | **Contributed talk**, @ [Tsinghua Transient Workshop 2012](#), Tsinghua University, Beijing
- JUN. 2010 | **Contributed talk**, @ [A mini-workshop on “Gamma-ray Sky from Fermi: Neutron Stars and their Environment”](#), University of Hong Kong, Hong Kong
- APR. 2009 | **Contributed talk**, @ [Frontiers of Space Astrophysics: Neutron Stars & Gamma Ray Bursts — Recent Developments & Future Directions](#), Cairo & Alexandria, Egypt

## PUBLICATIONS

### 1ST/2ND AUTHOR PAPERS IN REFEREED ACADEMIC JOURNALS

- 8 **Wang, X.** et al. Discovery of Strongly inverted metallicity gradients in Dwarf Galaxies at  $z \sim 2$ . 2018, *Astrophys. J.* submitted ([arXiv:1808.08800](#))
- 7 **Wang, X.** et al. The Grism Lens-Amplified Survey from Space (GLASS) X. Sub-kiloparsec resolution gas-phase metallicity maps at cosmic noon behind the Hubble Frontier Fields cluster MACS1149.6+2223. 2017, *Astrophys. J.*, 837, 89 ([arXiv:1610.07558](#))
- 6 **Wang, X.** et al. The Grism Lens-Amplified Survey from Space (GLASS) IV. Mass reconstruction of the lensing cluster Abell 2744 from frontier field imaging and GLASS spectroscopy. 2015, *Astrophys. J.*, 811, 29 ([arXiv:1504.02405](#))
- 5 Jones, T., **Wang, X.** et al. The Grism Lens-Amplified Survey from Space (GLASS) II. Gas-Phase Metallicity and Radial Gradients in an Interacting System At  $z \sim 2$ . 2015, *Astron. J.*, 149, 107 ([arXiv:1410.0967](#))
- 4 **Wang, X.**, Meng, X.-L., & Huang, Y. F., Testing X-ray Measurements of Galaxy Cluster Gas Mass Fraction Using the Cosmic Distance-Duality Relation and Type Ia Supernovae. 2013, *RAA*, 13, 1013 ([arXiv:1305.2077](#))
- 3 **Wang, X.**, Meng, X.-L. et al. Observational Constraints on Cosmic Neutrinos and Dark Energy Revisited. 2012, *J. Cosmol. Astropart. Phys.*, 11, 018 ([arXiv:1210.2136](#))
- 2 **Wang, X.**, Huang, Y. F., & Kong, S. W. Constraint on the Counter-jet Emission in GRB Afterglows from GRB 980703. 2010, *Sci. China-Phys. Mech. Astron.*, 53 (Suppl.1), 259
- 1 **Wang, X.**, Huang, Y. F., & Kong, S. W. On the Afterglow from the Receding Jet of Gamma-Ray Bursts. 2009, *Astron. Astrophys.*, 505, 1213 ([arXiv:0903.3119](#))

### CONTRIBUTING AUTHOR PAPERS IN REFEREED ACADEMIC JOURNALS (SELECTED)

- 6 Morishita, T., Abramson, L. E., Treu, T., **Wang, X.** et al. Metal Deficiency in Two Massive Dead Galaxies at  $z \sim 2$ . 2018, *Astrophys. J. Letters*, 856L, 4 ([arXiv:1803.01852](#))
- 5 Kelly, P. L., ..., **Wang, X.** et al. An individual star at redshift 1.5 extremely magnified by a galaxy-cluster lens. 2018, *Nature Astronomy*, in press ([arXiv:1706.10279](#))
- 4 Morishita, T., Abramson, L. E., Treu, T., Schmidt, K. B., Vulcani, B., **Wang, X.** Characterizing Intra-cluster Light in the Hubble Frontier Fields. 2017, *Astrophys. J.*, 846, 139 ([arXiv:1610.08503](#))
- 3 Treu, T., Schmidt, K. B., Brammer, G. B., Vulcani, B., **Wang, X.** et al. The Grism Lens-Amplified Survey from Space (GLASS). I. Survey Overview and First Data Release. 2015, *Astrophys. J.*, 812, 114 ([arXiv:1509.00475](#))
- 2 Schmidt, K. B., Treu, T., Brammer, G. B., Bradac, M., **Wang, X.** et al. Through the Looking GLASS: HST Spectroscopy of Faint Galaxies Lensed by the Frontier Fields Cluster MACSJ0717.5+3745. 2014, *Astrophys. J. Letters*, 782L, 36 ([arXiv:1401.0532](#))
- 1 Meng, X.-L., Zhang, T.-J., Zhan, H., & **Wang, X.** Morphology of Galaxy Clusters: A Cosmological Model-Independent Test of the Cosmic Distance-Duality Relation. 2012, *Astrophys. J.*, 745, 98 ([arXiv:1104.2833](#))

## APPROVED PROPOSALS (COI)

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- 1 JWST-ERS-1324, PI Treu: Through the Looking GLASS: A JWST Exploration of Galaxy Formation and Evolution from Cosmic Dawn to Present Day
- 2 HST-14922, PI Kelly: Probing the Nature of Dark Matter with Individual Stars Highly Magnified by a Galaxy Cluster
- 3 HST-14280, PI Bradac: Breaking Cosmic Dawn: Observing the  $z > 7$  Universe Through Cosmic Telescopes
- 4 VLT-0101.B-0418(A), PI Sanchez-Janssen: Chemodynamics of lensed dwarf galaxies at  $1 \lesssim z \lesssim 2$
- 5 Keck, PI Jones: Dissecting Galaxy Formation and Testing Feedback Models on 100 pc Scales: An OSIRIS Survey of Lensed Galaxies at  $z \simeq 2$

## OBSERVING EXPERIENCE

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- Keck OSIRIS, 12 nights
- Keck DEIMOS, 3 nights
- Keck MOSFIRE, 1 night
- Keck ESI, 1 night
- Lick Observatory Shane telescope, 1 night
- Steward Observatory Bok telescope, 6 nights

## PROFESSIONAL SERVICE

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- Referee for *Astrophysical Journal*, *Astrophysical Journal Supplement Series*
- External Reviewer for Chinese Telescope Access Program TAC

2014–2015 | Organizer of Treu Group Meetings, UCSB & UCLA

DEC. 2010– | Organizer of Graduate Journal Club in School of Astronomy and Space Sciences, NJU

DEC. 2011 | In total, I arranged 17 meetings, and invited 34 speakers. The topics are related to the major field of interest of the speakers, who will also share with participants some academic experience in doing scientific research. This activity is financially supported by our school.

## TEACHING EXPERIENCE

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SEPT.–DEC. 2010 | Teaching assistant of *Theoretical Astrophysics* (upper division undergraduate course), NJU

SEPT.–DEC. 2013 | Teaching assistant of *Physics 6 Lab*, UCSB

MAR.–JUN. 2014 | Teaching assistant of *Physics 3: Basic Physics*, UCSB

## WORKING EXPERIENCE AND OUTREACH ACTIVITIES

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2010–2012 | President of Graduate Student Union in School of Astronomy and Space Sciences, NJU

2015–2017 | Volunteer in the annual EXPLORING YOUR UNIVERSE! events, UCLA

2015–2017 | Demonstrator of Astronomy experiments to local K12 schools in Los Angeles

## COMPUTER SKILLS

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Python, MATLAB, FORTRAN, C,  $\LaTeX$ , vim, Github, Mathematica