

# Xuheng Ding

Kavli IPMU  
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## Research Interests

- Galaxies Evolution;
- Observational Cosmology;
- Strong Gravitational Lensing;
- Gravitational Wave.

## Education

- 2012.09 **Ph.D.**,  
—2017.06 *Beijing Normal University*, Beijing  
Adviser: Prof. Zong-Hong Zhu
- 2015.09 **Visiting Graduate Researcher**,  
—2017.03 *The University of California*, Los Angeles  
Adviser: Prof. Tommaso Treu
- 2008.09 **B.S.**,  
—2012.06 *Hunan Normal University*, Changsha

## Working Experience

- 2020.09 **Postdoc(Kavli Fellow)**, *University of Tokyo, Kavli IPMU*, Tokyo,  
—present Japan
- 2018.09 **Postdoc**, *Department of Physics and Astronomy, UCLA*, Los Angeles,  
—2020.08 US
- 2018.07.08 **Visiting Researcher**, *Kavli IPMU*, Tokyo, Japan  
—2018.08.03
- 2017.06 **Postdoc**, *Wuhan University, School of Physics and Technology*, Wuhan,  
—2018.09 China
- 2016 **Outreach**, *The Willows Community School*, Los Angeles, US  
Demonstration of a Water Bottle Rocket Show.
- 2014 **Teaching Assistant**, *Beijing Normal University*  
Stellar Atmosphere for Third Year Students.
- 2014 **Assistant Adviser**, *Beijing Normal University*  
Summer Camp of Astronomy for High School Students.

2011 **High-school Practice Teacher**, *Liling No. 4 high school*,  
Teaching High School Physics.

## Academic Activities (selected)

- HST Identification of dual quasars with close separations at  $z > 1$ ,  
Program Project ID [Cycle30-GO-17143](#) as PI.
- JWST A COMPLETE CENSUS OF SUPERMASSIVE BLACK HOLES AND HOST  
Program GALAXIES AT  $z = 6$   
Project ID [Cycle1-GO-1967](#) as project CO-PI([Co-PI](#))  
In charge of high redshift ( $z \sim 6$ ) QSO imaging data analysis.
- Programming Developed [GaLight](#): A python package that analyzes and models the  
imaging data of galaxies, QSOs, and duals.
- Project [Subaru HSC](#): developing tools for galaxy/QSO imaging analysis;  
participation [TDCOSMO](#) & [H0LiCOW](#): strong lensing time delay cosmography
- Project [TDLMC](#): Time delay lens modelling challenge.  
leading
- Referee for –The Astrophysical Journal;  
–Monthly Notices of the Royal Astronomical Society;  
–Astronomy & Astrophysics.

## Awards (selected)

### during postdoc

- 2022 JSPS Grant-in-Aid for Early-Career Scientists – JSPS.
- 2020 First author paper “Testing the Fidelity of Simulations of Black Hole-  
Galaxy Coevolution at  $z \sim 1.5$  with Observations” recognized as [AAS  
Nova research highlight](#) (2020/09/30).

### during student

- 2018 Excellent doctoral thesis of Beijing Normal University.
- 2015–17 China Scholarship Council Fellowship.
- 2016 Young Scholars Outstanding Paper Award — Chinese Physical Society.
- 2016 First Prize in Young Astronomers Academic Reports Workshop— Chi-  
nese Astronomical Society.
- 2015 Ph.D. candidates Chinese National Scholarship.

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## Scientific Research Guidance

- Graduate student Shenli Tang, (2020-Present, Tokyo University): on HSC dual quasar searching and analysis.  
Lilan Yang, (2018-2019, WHU): on strong lensed GW detection rate prediction.  
Xianlong He, (2021-2022, WHU): on HST galaxy and strong lensing image data analysis.
- Undergrad. Changhao Chen, (2021-2022, USTC): on HST deep image of simulation.

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## Presentations

- 2022 **COSMOS2022**,  
*Institut d'Astrophysique de Paris*, Paris, France
- 2021 **SHAO Colloquium**,  
*Shanghai Astronomical Observatory*, Shanghai, China
- 2021 **WHU Colloquium**,  
*Wuhan University*, Wuhan, China
- 2021 **USTC Colloquium**,  
*Department of Astronomy - School of Physical Sciences*, Hefei, China
- 2021 **IPMU Colloquium**,  
*Kavli IPMU (remotely)*, Kashiwa, Japan
- 2019 **Annual AGN-Starburst Meeting**,  
*National Astronomical Observatories of China*, Guiyang, Guizhou
- 2019 **Annual Galaxy evolution workshop**,  
*Kavli IPMU*, Tokyo, Japan
- 2019 **Lunch Seminar Talks**,  
*Kavli IPMU*, Tokyo, Japan
- 2018 **Annual Meeting of STRIDES/H0LiCOW**,  
*Max Planck Institute for Astrophysics*, Garching, Germany (remotely)
- 2018 **Lunch Seminar Talks**,  
*Kavli IPMU*, Tokyo, Japan
- 2017 **Annual meeting of the Division of Gravitation and Relativistic Astrophysics of the Chinese Physical Society**,  
*Southwest Jiaotong University*, Chengdu, China
- 2016 **Young Astronomers Academic Reports Workshop**,  
*NAOC*, Beijing, China
- 2016 **Annual Meeting of STRIDES/H0LiCOW**,  
*UCLA*, Los Angeles, USA
- 2015 **Annual Meeting of the Chinese Physical Society**,  
*Division of Gravitation and Relativistic Astrophysics*, Hangzhou, China

2015 **Ningbo Cosmology Workshop,**  
*The University of Nottingham Ningbo, China*

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## Languages

English (Fluent)  
Japanese (Chotto)  
Chinese (Mother-tongue)

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## Non-academic Interests

Playing guitar  
Learning piano  
Playing sports including basketball, badminton, swimming