

# Yuming Fu

PHD CANDIDATE IN ASTROPHYSICS

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## Education

### Department of Astronomy / KIAA, Peking University

Beijing, China

PHD CANDIDATE IN ASTROPHYSICS

2016 –

- Thesis title: Searching for Quasars behind the Galactic Plane
- Supervisor: Prof. Xue-Bing Wu

### Leiden Observatory, Leiden University

Leiden, Netherlands

GUEST PHD STUDENT

Apr. 2019 – Sep. 2019

- Supervisor: Dr. Anthony G.A. BROWN

### China University of Geosciences

Beijing, China

BACHELOR OF SCIENCE IN GEOPHYSICS

2012 – 2016

- Outstanding Graduates Of Beijing City
- Thesis title: High-precision Research on the Velocity Structure of Double Seismic Zone beneath Tohoku Region in Japan
- Advisor: Prof. Guoming JIANG

## Teaching & mentoring

### Undergraduate course: Observational Experiments for Astrophysics (Optical), Peking University

Beijing, China

TEACHING ASSISTANT

Sep. 2019 – Jan. 2020

### Undergraduates Class 2018 in Astronomy, Peking University

Beijing, China

CLASS ADVISER

Aug. 2018 –

## Peer review publications

### First-author publications:

- 2 FINDING QUASARS BEHIND THE GALACTIC PLANE. II. SPECTROSCOPIC IDENTIFICATIONS FOR  $\sim 200$  NEW GPQS  
*Fu Y., Wu X.-B. et al.* 2021  
In prep.
- 1 FINDING QUASARS BEHIND THE GALACTIC PLANE. I. CANDIDATE SELECTIONS WITH TRANSFER LEARNING  
*Fu Y., Wu X.-B., Yang Q., Brown A.G. A., Feng X., Ma Q. & Li S.* 2021  
2021, ApJS, 254, 6

### Other publications:

- 4 CHANDRA DETECTION OF THREE X-RAY BRIGHT QUASARS AT  $z > 5$   
*Li J.-T., Wang F., Yang J., Zhang Y., Fu Y., Bian F., Bregman J. N., Fan X., Li Q., Wu X.-B. & Yu X.* 2021  
2021, ApJ, 906, 135
- 3 THE LARGE SKY AREA MULTI-OBJECT FIBER SPECTROSCOPIC TELESCOPE (LAMOST) QUASAR SURVEY: THE FORTH AND FIFTH DATA RELEASE  
*Yao S., Wu X.-B., Ai Y.L., Yang J., Yang Q., Dong X., Joshi R., Wang F., Feng X., Fu Y., Hou W., Luo A.-L., Kong X., Liu Y., Zhao Y.-H., Zhang Y.-X., Yuan H.-L., & Shen S.* 2019  
2019, ApJS, 240, 6
- 2 DISCOVERY OF 21 NEW CHANGING-LOOK AGNS IN NORTHERN SKY  
*Yang Q., Wu X.B., Fan X., Jiang L., McGreer I., Shangguan J., Yao S., Wang B., Joshi R., Green R., Wang F., Feng X., Fu Y., Yang J. & Liu Y.* 2018  
2018, ApJ, 862, 109
- 1 QUASAR PHOTOMETRIC REDSHIFTS AND CANDIDATE SELECTION: A NEW ALGORITHM BASED ON OPTICAL AND MID-INFRARED PHOTOMETRIC DATA  
*Yang Q., Wu X.B., Fan X., Jiang L., McGreer I., Green R., Yang J., Schindler J.T., Wang F., Zuo W. & Fu Y.* 2017  
2017, AJ, 154, 269

## Seminars & Conference Talks

Oct., 2020	<b>2020 Annual Meeting of Chinese Astronomical Society (CAS)</b> , Finding Quasars behind the Galactic Plane: The New Candidate Catalog	Beijing, China
Apr., 2019	<b>ESLAB# 53: The <i>Gaia</i> Universe</b> , Uncovering Hidden Quasars behind the Galactic Plane with ALLWISE, Pan-STARRS and <i>Gaia</i>	Noordwijk, Netherlands
Oct., 2018	<b>2018 Annual Meeting of Chinese Astronomical Society (CAS)</b> , Searching for Quasars behind the Galactic Plane	Kunming, China

## Training

### Observations

2017-2021	<b>2.16-meter Telescope; &gt; 250 hours</b> , PI; Co-I	Xinglong Observatory, China
2017-2021	<b>2.4-meter Telescope; &gt; 130 hours</b> , PI; Co-I	Lijiang Observatory, China
2019-2021	<b>MDM 1.3-meter Telescope; &gt; 70 hours</b> , PI; Co-I	MDM Observatory, USA
2018, 2020	<b>Hale 200-inch Telescope; 40 hours</b> , Co-I	Palomar Observatory, USA

### Summer schools

Jul. 2018	<b>The 2nd East Asian Workshop on Astrostatistics</b> , NAOC/GNU/PMO	Nanjing, China
Nov. 2017	<b>The Ninth Xinglong Observational Astrophysics Workshop: High Resolution Spectroscopy</b> , NAOC	Xinglong Observatory, China
Sep. 2017	<b>TIARA Summer School on Astrostatistics and Big Data</b> , TIARA, ASIAA	Taipei, Taiwan, China
Jul. 2017	<b>LAMOST Users Workshop 2017</b> , NAOC/UCAS	Huairou, China
Aug. 2016	<b>The Sixth Xinglong Observational Astrophysics Workshop: Time Domain Astronomy</b> , NAOC	Xinglong Observatory, China

## Honors & Awards

2020	<b>Merit Student</b> , PKU	Beijing, China
2020,2018	<b>Special Scholarship for Outstanding PhD Students</b> , PKU	Beijing, China
2020	<b>Outstanding Teaching Assistant</b> , PKU	Beijing, China
2020	<b>Excellent Class Adviser</b> , PKU	Beijing, China
2019,2017	<b>Award for Scientific Research</b> , PKU	Beijing, China
2017	<b>The 3rd Prize of CASC Scholarship</b> , PKU/CASC	Beijing, China

## Outreach

Jan. 18, 2020	<b>Public Talk: A Brief History of Black Holes.</b> , Library of Jianyang City	Chengdu, China.
Jan. 30, 2019	<b>Public Talk: Big eyes: A glimpse at the telescopes.</b> , Library of Jianyang City	Chengdu, China.
2018	<b>Public Talk: Astronomy in Everyday Life.</b> , Hangzhou Arts and Crafts Museum / Bingwen Book House	Hangzhou & Chengdu

## Community Service

<b>DoA-PKU Website</b>	Beijing, China
WEBMASTER & CO-DESIGNER: <a href="http://astro.pku.edu.cn">astro.pku.edu.cn</a>	2018-2021
<b>Quasar Group Servers</b>	Beijing, China
MANAGER	2017-2021

## Skills

<b>Observation and data reduction</b>	Photometric/spectroscopic observation, telescope operating, IRAF
<b>Programming</b>	Python, Matlab, Bash, Fortran, C, IDL
<b>Data mining and machine learning</b>	Statistical machine learning, deep learning, and transfer learning on various platforms
<b>Database</b>	MySQL, Clickhouse
<b>Management</b>	LAMP server