

# Yuming Fu

PHD IN ASTROPHYSICS

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## Education

### Department of Astronomy / KIAA, Peking University

Beijing, China

PHD IN ASTROPHYSICS

2016 – 2021

- Outstanding Graduate of Beijing
- Thesis title: A Survey 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 Graduate Of Beijing
- 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 – Aug. 2021

## Peer review publications

### First-author publications:

- 2 FINDING QUASARS BEHIND THE GALACTIC PLANE. II. SPECTROSCOPIC IDENTIFICATIONS FOR  $\sim 200$  GPQS  
*Fu Y., Wu X.-B. et al.* 2021  
To be submitted.
- 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

## Authored Softwares

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### Open-source Softwares:

- |   |  |                                     |
|---|--|-------------------------------------|
| 2 | QSOFITMORE: A PYTHON PACKAGE FOR FITTING UV-OPTICAL SPECTRA OF QUASARS<br><i>Fu Y.</i>           | 2021<br>doi: 10.5281/zenodo.4893734 |
| 1 | PYFOSC: A PIPELINE TOOLBOX FOR BFOSC/YFOSC LONG-SLIT SPECTROSCOPY DATA REDUCTION<br><i>Fu Y.</i> | 2020<br>doi: 10.5281/zenodo.3915021 |

## Seminars & Conference Talks

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|------------|--|---------------------------|
| May, 2021  | <b>The 23rd CAS Guoshoujing Symposium on Galaxies and Cosmology</b> , A Survey for Quasars behind the Galactic Plane ( <b>Best Oral Presentation</b> ) | Hangzhou, Zhejiang, China |
| 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, Yunnan, China    |

## Training

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### Observations

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|------------|--|-----------------------------|
| 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

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|-----------|--|-----------------------------|
| Jul. 2018 | <b>The 2nd East Asian Workshop on Astrostatistics</b> , NAOC/GNU/PMO                               | Nanjing, Jiangsu, 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  | Beijing, China              |
| Aug. 2016 | <b>The Sixth Xinglong Observational Astrophysics Workshop: Time Domain Astronomy</b> , NAOC        | Xinglong Observatory, China |

## Honors & Awards

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|-----------|---|----------------|
| 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

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

## Community Service

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### DoA-PKU Website

WEBMASTER & CO-DESIGNER: [astro.pku.edu.cn](http://astro.pku.edu.cn)

Beijing, China

2018-2021

## Skills

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**Observation and data reduction**

Photometric/spectroscopic observation, telescope operating, IRAF

**Programming**

Python, Matlab, Bash, Fortran, C, IDL

**Data mining and machine learning**

Statistical machine learning, deep learning, and transfer learning on various platforms

**Database**

MySQL, Clickhouse

**Management**

LAMP server