

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 ~ 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., Shanguan 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

Open-source Softwares:

- 2 QSOFITMORE: A PYTHON PACKAGE FOR FITTING UV-OPTICAL SPECTRA OF QUASARS 2021
Fu Y. doi: 10.5281/zenodo.4893734
- 1 PYFOOSC: A PIPELINE TOOLBOX FOR BFOSC/YFOOSC LONG-SLIT SPECTROSCOPY DATA REDUCTION 2020
Fu Y. doi: 10.5281/zenodo.3915021

Seminars & Conference Talks

- May, 2021 **The 23rd CAS Guoshoujing Symposium on Galaxies and Cosmology**, A Survey for Quasars behind the Galactic Plane (**Best Oral Presentation**) Hangzhou, Zhejiang, China
- Oct., 2020 **2020 Annual Meeting of Chinese Astronomical Society (CAS)**, Finding Quasars behind the Galactic Plane: The New Candidate Catalog Beijing, China
- Apr., 2019 **ESLAB# 53: The Gaia Universe**, Uncovering Hidden Quasars behind the Galactic Plane with ALLWISE, Pan-STARRS and *Gaia* Noordwijk, Netherlands
- Oct., 2018 **2018 Annual Meeting of Chinese Astronomical Society (CAS)**, Searching for Quasars behind the Galactic Plane Kunming, Yunnan, China

Training

Observations

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

Summer schools

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

Honors & Awards

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

Outreach

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

Community Service

DoA-PKU Website

WEBMASTER & CO-DESIGNER: astro.pku.edu.cn

Beijing, China

2018-2021

Skills

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