

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:

- 3 FINDING QUASARS BEHIND THE GALACTIC PLANE. II. SPECTROSCOPIC IDENTIFICATIONS FOR ~ 800 NEW GPQS
Fu Y., Wu X.-B. et al. 2020
In prep.
- 2 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. 2020
Submitted to ApJS
- 1 PRECISE ARTHQUAKE RELOCATION OF DOUBLE SEISMIC ZONE BENEATH TOHOKU REGION IN JAPAN (IN CHINESE)
Fu Y., Jiang G., Wei Y., Zhou Z., & Ma X. 2016
Acta Seismologica Sinica

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. 2020
ApJ
- 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
ApJS
- 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
AJ
- 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
AJ

Seminars & Conference Talks

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 <i>Gaia</i> Universe , Uncovering Hidden Quasars behind the Galactic Plane with ALLWISE, Pan-STARRS and <i>Gaia</i>	Noordwijk, Netherlands
Oct., 2018	2018 Annual Meeting of Chinese Astronomical Society (CAS) , Searching for Quasars behind the Galactic Plane	Kunming, 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	Hale 200-inch Telescope; 20 hours , Co-I	Palomar Observatory, USA

Summer schools

Jul. 2018	The 2nd East Asian Workshop on Astrostatistics , NAOC/GNU/PMO	Nanjing, 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	Huirou, 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, China.
Jan. 30, 2019	Public Talk: Big eyes: A glimpse at the telescopes. , Library of Jianyang City	Chengdu, China.
2018	Public Talk: Astronomy in Everyday Life. , Hangzhou Arts and Crafts Museum / Bingwen Book House	Hangzhou & Chengdu

Community Service

DoA-PKU Website	Beijing, China
WEBMASTER & CO-DESIGNER: astro.pku.edu.cn	2018-2021
Quasar Group Servers	Beijing, China
MANAGER	2017-2021

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