YANGYANG LI

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EDUCATION

University of Science and Technology of China *expected 06/2018*
B.S. in Astrophysics

Senior-year undergraduate of Special Class for the Gifted Young, major in astronomy *till 09/2017*
Average score: 84.06/100
GPA(Grade Point Average): 3.32/4.3

STANDARDIZED TESTS

TOEFL : 95(Reading: 26 Listening: 24, Speaking: 23, Writing: 22)
GRE General : 310(V:151 Q:159 AW:3.0)

HONORS

Excellent freshmen scholarship	10/2014
Outstanding student scholarship for Summer Research Abroad ($ 3000)	06/2017
Caltech 2017 Summer Undergraduate Research Fellowship	06/2017
Outstanding student scholarship of National Astronomical Observatories, CAS	11/2017

RESEARCH EXPERIENCE

Exoplanet Group, Caltech 06/2017 - 10/2017
Advisors:Postdoc Ji Wang & Assosiate Prof. Dimitri Mawet

· Subject : Searching planets in Binary Stars in the field of K2 Mission

- We discover a planet with a period of 28 days in EPIC 201920032, a binary system in separation of 6500 AU in which the primary is sun-like stellar
- Using the method of transit and aid by further statistical validation and false positive test

· Progress : paper finished awaiting to submit in November 2017

Quasar Group, USTC 06/2016 - Present
Advisor: Prof. Tinggui Wang *Partner: JingWei Liu, graduate student of University of Arizon*

· Subject : Study the CF (Covering Factor) of warm dust in Quasars from a statistical point of view

- Use Python and IDL to reduce WISE (a space telescope) data. Combined with the SDSS (a ground based telescope) data to calculate the CF of warm dust in quasars
- Classify quasars based on red shift, luminosity, the mass of black hole and other characters of quasar
- Study the CF of warm dust in quasars from a statistical point of view

· Progress : paper in preparation

Quasar Group, USTC 06/2016 - Present
Advisor: Prof. Tinggui Wang

· Study the outflow of Quasar

- Study some basic knowledge of the outflow
- Try to find the relationship between the outflow within the BLR(Broad-Line Region) and the outflow within the NLR(Narrow-Line Region)

Optical Lab, Astronomy Department, USTC 03/2016 - 06/2016
Advisor: A.P. Qingfeng Zhu

· Design and assemble a grating spectrometer to measure the spectrum of mercury lamp

- Team leader:organize a group to design and assemble a grating spectrometer
- Responsible for optical design and program for the automation of the spectrometer, cooperate with other teammates to assemble instruments and collect data by LabVIEW

University of Science and Technology 10/2016
Advisor: Researcher of Polar Research Institude of China. Peng Jiang

· Photometric measurement of the stellar to find the exoplanet, Proxima b by tracking transition curve

- Aperture Photometry for those images of Proxima Centauri by telescope, AST3-1

· Master some basic skills of photometry and the use of IRAF

Gaomeigu, Yunnan Observatories, CAS 02/2016
Advisor: Professor . XiaoBo Dong

· Study some simulation code and usage of Gadget-2 Program

- Program with C++ language
- Study some knowledge of MOND Theory
- Master some basic skills for Ubuntu and other LINUX system

RESEARCH SKILLS

Computer Languages
Latex(Proficient), C/C++(Proficient),Python(Proficient), IDL, R(a little), HTML, CSS, Javascript

Software
DS9, IRAF/PyRAF (general)
SExtractor (PSF photometry)
scikit-learn/image, astroML (machine learning)
AGNfitter (SED fitting)
VESPA (false positive probability estimator)

Statistical Techniques
regression, PCA, Bayesian inference, model selection

CONFERENCES & WORKSHOPS

Exoplanets and Planet Formation, Shanghai, China 12/2017
Undergraduate research presentation at USTC, Hefei, China 20/10/2017
-Talk: Search Exoplanets in Binary-Stellar Systems in K2 field and Architecture of Binary Planetary System
2017 Caltech SURF Seminar, Caltech 24/08/2017
-Talk: Search of Exoplanets in Binary-Stellar Systems and Validation of Planet EPIC 201920032b

Sagan Exoplanet Summer Workshop Microlensing in the Era of WFIRST, Caltech 08/2017
2016 Annual Conference of Astronomical Society of China, Wuhan, China 10/2016

OUTREACHES AND APPOINTMENT

Temporary Lecturer 11/2017
Courses about exoplanet of No.8 High School of Hefei, Hefei, China
Teach Assistant Spring 2017
02201001 Lecture of the Frontier of Astrophysics, USTC
Research Assistant 04/2016 - present
Key Laboratory for Research in Galaxy and Cosmology, USTC
Member of Association of Astronomy in USTC, Hefei, China 2014-2015

REFERENCES

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