
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 & Associate 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 Arizona

- 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 Institute 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

Light curve fitting
 PSF photometry
 Multivariate gaussian spectral fitting
 Monte Carlo simulation
 Data access from WISE and SDSS
 Aperture photometry
 Image stacking and other image processing techniques
 SED fitting
 Latex(Proficient) Programming in several languages, such as C/C++(Proficient),Python(Proficient) and IDL, plus a little R, HTML, CSS, Javascript

CONFERENCES

Exoplanets and Planet Formation, Shanghai, China	12/2017
Sagan Exoplanet Summer Workshop Microlensing in the Era of WFIRST, Caltech	08/2017

OUTREACHES AND SERVICES

Permanet lecturer about exoplanet of No.8 High School of Hefei, Hefei, China	11/2017
Teach assistant of Lecture of the Frontier of Astrophysics, USTC	Spring 2017
Member of Association of Astronomy in USTC, Hefei, China	2014-2015

REFERENCES

Prof. Tinggui Wang
AGN(Active Galactic Nuclei) Group, USTC
University of Science and Technology of China

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