
YANGYANG LI

Website: <http://Li-Yangyang.github.io>

96 JinZhai Rd, Heifei, China, 230026

tel: +86 18856020499 ◇ email: lyy0731@mail.ustc.edu.cn

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

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

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

Phone: +86-551-63607503
E-mail: twang@ustc.edu.cn

Postdoc Ji Wang
Exoplanet Group, Caltech
California Institution of Technology

Phone: +1-626-395-4981
E-mail: ji.wang@caltech.edu

Associate Prof. Dimitri Mawet
Exoplanet Group, Caltech
California Institution of Technology

Phone: 626-395-1452
E-mail: dmawet@astro.caltech.edu