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# YANGYANG LI

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## EDUCATION

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**University of Science and Technology of China**

*expected Jun 2018*

B.S. in Astrophysics

Third-year undergraduate of Special Class for the Gifted Young, major in astronomy *till Sep 2017*

Average score: 85/100

GPA(Grade Point Average): 3.32/4.3

## STANDARDIZED TESTS

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**TOEFL :** 90(Reading: 23 Listening: 23, Speaking: 22, Writing: 22)

**GRE General :** 310(V:151 Q:159 AW:3.0)

## HONORS

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Excellent freshmen scholarship

October 2014

Outstanding student scholarship for Summer Research Abroad (\$ 3000)

June 2017 Outstanding

student scholarship of National Astronomical Observatories, CAS

November 2017

## RESEARCH EXPERIENCE

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**Exoplanet Group, Caltech**

June 2017 - Oct 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

**Quasar Group, USTC**

June 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**

June 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**

March 2016 - June 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**

October 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**

February 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

## **ACADEMIC ACTIVITIES**

Exoplanets and Planet Formation

Dec 2017 Shanghai, China

Sagan Exoplanet Summer Workshop Microlensing in the Era of WFIRST  
USA

Aug 2017 Pasadena, LA,

## **OUTREACHES AND SERVICES**

Permanet lecturer about exoplanet of No.8 High School of Hefei

Nov 2017 Hefei, China

Teach assistant of Lecture of the Frontier of Astrophysics

Spring 2017

Member of Association of Astronomy in USTC

2014-2015 Hefei, China

## **REFERENCES**

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

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