

# Lingjian CHEN

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## Education

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**Shanghai Jiao Tong University (SJTU), China**  
**B.S. in Physics**

Sep. 2013 - Jun. 2017 (expected)

Major GPA: 84.5/100

Astronomy Courses:

Introduction to Astrophysics	97/100
Introduction to Astronomy	100/100

## Honors

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Wangban Scholarship, Class B	2016
2 <sup>nd</sup> prize, National Mathematical Contest in Modeling	2015
2 <sup>nd</sup> prize, Shanghai Young Physics' Contest	2014
Academic Excellence Scholarship	2016, 2014

## Research Experiences

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**Globular Cluster Richness Study in Virgo Cluster**

Mar. 2015 - Oct. 2016

*Supervised by Dr. Chengze Liu, Center for Astronomy and Astrophysics, SJTU*

- Retrieved preprocessed catalog from Next Generation Virgo cluster Survey (NGVS) conducted on CFHT
- Selected 20 nucleated dwarf elliptical (dE,N) candidates from 704 spectroscopically confirmed Virgo Cluster dwarf ellipticals
- Set up a globular cluster (GC) selection method and used it to detect GCs around the dE,Ns
- Fitted King+Sérsic model to the dE,Ns and subtracted the model to achieve higher detection efficiency
- Compared GC richness among the dE,Ns, reached results that agreed with the literature

**Selection of Lyman Break Galaxies**

Sep. 2014 - Jan. 2015

*Supervised by Prof. Sébastian Foucaud, Center for Astronomy and Astrophysics, SJTU*

- Retrieved multiband photometric data in  $B,R,u,i,z$  bands from UKIDSS
- Selected LBGs at  $z \sim 3,4,5$  by color-color diagram to detect flux dropouts in different bands
- Approximated the LBGs' photometric redshifts without spectroscopy

**Photon Multiplier Tube Test**

Jul. 2014 - Aug. 2014

*Summer session research assistant, Institute of Particles and Cosmology, SJTU*

- Tested the performance of photon multiplier tubes (PMTs) under different high voltages
- Calibrated the PMTs by known cosmic rays

## Extra-Curriculum Activity

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**Astronomy Society in SJTU** *President*

May 2014 - May 2015

- Arranged several roadside star-gazing events
- Organized a 30-person summer camp to Inner Mongolia, where we enjoyed no-pollution starry nights
- Invited researchers from Shanghai Observatory to give talks on popular astronomy topics

**Shanghai International Marathon** *Volunteer*

Dec. 2014

## Skills

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**Astronomy Software:** TOPCAT, GALFIT, SEXtractor, SAO-ds9

**Programming:** Python (proficient with astropy), Matlab, L<sup>A</sup>T<sub>E</sub>X