

# Jiaxuan Li

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Gansu, China | 28 September 1998  
ADDRESS: Building 28, Peking University  
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HOMEPAGE: <https://astrojacobli.github.io/Homepage/>

## EDUCATION

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SEPTEMBER 2016– Undergraduate Student in ASTROPHYSICS, **Peking University**, China  
Major: Astrophysics  
Advisor: Dr. Yingjie PENG  
GPA: 3.85/4 [| Detailed Transcript](#)

AUGUST 2013–JUNE 2016 Senior High School, **Dingxi NO.1 Middle School**, Dingxi, Gansu  
AUGUST 2010–JUNE 2013 Junior High School, **Gongyuan Road Middle School**, Dingxi, Gansu  
SEPTEMBER 2004–JUNE 2010 Primary School, **Dacheng Primary School**, Dingxi, Gansu

## PRIZES AND SCHOLARSHIPS

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APRIL 2018 MERITORIOUS WINNER IN MATHEMATICAL CONTEST IN MODELING (MCM/ICM).  
MARCH 2018 EXCELLENT MEMEBER OF COMMUNIST YOUTH LEAGUE (优秀共青团员),  
Peking University, China.  
NOVEMBER 2017 WEIMING PHYSICS OUSTANDING STUDENT (未名物理学子) ,  
Peking University, China.  
OCTOBER 2017 LEO KOGUAN SCHOLARSHIP (10,000 RMB), Peking University, China.  
OCTOBER 2017 MERIT STUDENT, Peking University, China.  
OCTOBER 2017 INNOVATION PRIZE, Peking University, China.  
AUGUST 2017 First Prize, 8<sup>th</sup> CHINA UNDERGRADUATE PHYSICISTS' TOURNAMENT, Harbin, China.  
AUGUST 2015 Silver Medal, 9<sup>th</sup> INTERNATIONAL OLYMPIAD ON ASTRONOMY AND ASTROPHYSICS,  
Maglang, Indonesia.  
APRIL 2015 Gold Medal & Best Result, 11<sup>th</sup> CHINA NATIONAL ASTRONOMY OLYMPIAD,  
Weihai, China.  
AUGUST 2014 Bronze Medal, 8<sup>th</sup> INTERNATIONAL OLYMPIAD ON ASTRONOMY AND ASTROPHYSICS,  
Suceava, Romania.  
APRIL 2014 Gold Medal & Best Result, 10<sup>th</sup> CHINA NATIONAL ASTRONOMY OLYMPIAD,  
Beijing, China.

## PRIZES AND SCHOLARSHIPS

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NOVEMBER 2013    Gold Medal, 9<sup>th</sup> ASIA-PACIFIC ASTRONOMY OLYMPIAD, Tomohon, Indonesia.  
APRIL 2013    Gold Medal, 9<sup>th</sup> CHINA NATIONAL ASTRONOMY OLYMPIAD, Kunming, China.

## RESEARCH EXPERIENCE

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JULY 2017- ADVISOR: YINGJIE PENG	Inside-out quenching galaxies with H $\alpha$ ring-like structures We investigated galaxies with H $\alpha$ emission ring-like structures in Mapping Nearby Galaxies at APO (MaNGA) survey, with stellar mass in the range $9 < \log(M/M_{\odot}) < 12$ . These galaxies are almost located in the green valley on SFR-stellar mass plane. The radius of H $\alpha$ rings are measured and good linear relations between bar length and H $\alpha$ ring radius are found. We reveal that the appearance of H $\alpha$ star-forming ring-like structure has a strong correlation with bar-induced activities, but not with active galactic nuclei (AGN). The majority of our H $\alpha$ ring galaxy sample are galaxies which are classified as LINER with $\text{EW}(\text{H}\alpha) < 3\text{\AA}$ . Low luminosity AGN possibly plays a role in inside-out quenching accompanying with H $\alpha$ ring-like structure. Morphological quenching and bulge show less relation with H $\alpha$ ring galaxies.
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## WORK EXPERIENCE

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MAY 2017-MAY 2018	President of Youth Astronomy Society (YAS), Peking University Youth Astronomy Society is aiming at broadcasting astronomy knowledge to public, especially to students in Peking University. Youth Astronomy Society holds <i>Routine Observations</i> , <i>Scientific Outreach Lectures</i> , <i>Tuantu Series Lectures</i> , <i>Countryside Observations</i> , etc. There are also several groups, like Astrophotography Group, Meteor Group, etc.
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## LANGUAGES

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ENGLISH:	Fluent. TOEFL iBT: 103 (Jan 28, 2018) Reading: 30; Listening: 26; Speaking: 22; Writing: 25.
CHINESE MANDARIN:	Mother tongue
CHINESE DINGXI ACCENT:	Fluent

## COMPUTER SKILLS

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Skilled Language:	Python, L <sup>A</sup> T <sub>E</sub> X, Mathematica
Basic Knowledge:	Excel, Word, PowerPoint, Photoshop

## ACTIVITIES

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- AUGUST 2017 ASIAN SCIENCE CAMP, Kampar, Malaysia.  
MAY 2017 KIAA 10<sup>th</sup> ANNIVERSARY SYMPOSIUM, Peking University, Beijing, China  
OCTOBER 2016 QIUSHI PRIZE AWARDING CEREMONY, Peking University, Beijing, China  
APRIL 2013 PACIFIC ASTRONOMY AND ENGINEERING SUMMIT, Hawaii, U.S.

## ATTENDED LECTURES

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- APR. 26 2018 *The Dark Age and Cosmic Dawn*  
by XUELEI CHEN (National Astronomical Observatory of China, NAOC).  
MAR. 29 2018 *UHECR from LL GRBs*  
by PETER MESZAROS (Pennsylvania State University).  
MAR. 22 2018 *Binary evolution and its applications*  
by ZHANWEN HAN (Yunnan Observatory).  
DEC. 19 2017 *LIGO and Gravitational Waves: A New Way to Explore the Universe*  
by RAINER WEISS (MIT) and KIP. S. THRONE (Caltech).  
DEC. 3 2017 *Quantum Breakthrough: From Myth, Philosophy to Information Technology*  
by JIANWEI PAN, USTC.  
OCT. 26 2017 *The formation of the smallest galaxies*  
by HOLGER BAUMGARDT, Queensland University, Australia.  
SEPT. 5 2017 *Roles of Environment and Core Stellar Density in Star-formation Quenching*  
by PETCHARA PATTARAKIJWANICH, KIAA.

# Undergraduate Student's Transcript

## Major: ASTROPHYSICS

### Grades

EXAM	GPA	CREDIT
Introduction to Computation	3.77	3
Language, Culture and Communication	3.88	2
Fundamental Astronomy	3.85	3
Linear Algebra (B)	3.97	4
Lectures on The Frontiers of Modern Physics (I)	Pass	2
Mechanics	3.73	4
Advanced Mathematics (B)(I)	4.00	5
Military Theory	3.63	2
Outline of Chinese Modern History	3.88	2
Rings, Fields and Galois Theory	3.97	2
Chaos and Fractal in Natural Science	3.89	2
Electromagnetism	3.73	4
Methods of Mathematical Physics (I)	3.93	3
Advanced Mathematics (B)(II)	3.63	5
Thermal Physics	3.94	3
Data Structure and Algorithm	3.52	3
The Logic of Life	3.93	2
Theoretical Mechanics (A)	3.88	4
Swimming	3.52	1
Equilibrium Statistical Physics	3.88	4
Atomic Physics	3.97	3
General Physics Experiment (I)	3.85	3
Methods of Mathematical Physics (II)	3.93	3
Optics	3.63	4
Basics of Cosmological Physics	3.98	3
Astrophysics	3.95	3
Electrodynamics (A)	3.88	4
Special Topics of Methods of Mathematical Physics	3.99	3
An Introduction to Ideological & Moral Culture and Laws	3.73	2
General Physics Experiment (II)	3.98	3
Seminar for Astrophysics	3.96	2
Total		93
GPA	3.85	

