

Jiaxuan Li

PERSONAL DATA

PLACE AND DATE OF BIRTH: Gansu, China | 28 September 1998
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EDUCATION

SEPTEMBER 2016– Undergraduate Student in DEPARTMENT OF ASTRONOMY,
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

SEPTEMBER 2018 AEON SCHOLARSHIP (10,000 RMB), Peking University, China.
SEPTEMBER 2018 Second Prize of [LINBRIDGE PRIZE](#) FOR EXCELLENT UNDERGRADUATE RESEARCH
PROJECTS IN ASTRONOMY AND ASTROPHYSICS, Peking University, China.
APRIL 2018 MERITORIOUS WINNER IN MATHEMATICAL CONTEST IN MODELING (MCM/ICM).
MARCH 2018 EXCELLENT MEMBER OF COMMUNIST YOUTH LEAGUE (优秀共青团员),
Peking University, China.
NOVEMBER 2017 WEIMING PHYSICS OUTSTANDING STUDENT (未名物理学子),
Peking University, China.
OCTOBER 2017 LEO KO GUAN 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, 8th CHINA UNDERGRADUATE PHYSICISTS' TOURNAMENT, Harbin, China.
JANUARY 2016 Bronze Medal (6th place) & Innovation Prize, 2nd PRINCETON UNIVERSITY
PHYSICS COMPETITION, Princeton, US.
NOVEMBER 2015 Bronze Medal, 32nd CHINA PHYSICS OLYMPIAD, Changsha, China.

PRIZES AND SCHOLARSHIPS

- AUGUST 2015 Silver Medal, 9th INTERNATIONAL OLYMPIAD ON ASTRONOMY AND ASTROPHYSICS, Magelang, Indonesia.
- APRIL 2015 Gold Medal & Best Result, 11th CHINA NATIONAL ASTRONOMY OLYMPIAD, Weihai, China.
- JANUARY 2015 Gold Medal (3rd place), 1st PRINCETON UNIVERSITY PHYSICS COMPETITION, Princeton, US.
- AUGUST 2014 Bronze Medal, 8th INTERNATIONAL OLYMPIAD ON ASTRONOMY AND ASTROPHYSICS, Suceava, Romania.
- APRIL 2014 Gold Medal & Best Result, 10th CHINA NATIONAL ASTRONOMY OLYMPIAD, Beijing, China.
- NOVEMBER 2013 Gold Medal, 9th ASIA-PACIFIC ASTRONOMY OLYMPIAD, Tomohon, Indonesia.
- APRIL 2013 Gold Medal, 9th CHINA NATIONAL ASTRONOMY OLYMPIAD, Kunming, China.

RESEARCH EXPERIENCE

SEPT. 2018- ADVISOR: ALEXIE LEAUTHAUD	Studies on the evolution of massive galaxies using HSC, DECaLS, Dragonfly and GAMA data.
JULY 2017- ADVISOR: YINGJIE PENG	<p>Inside-out quenching galaxies with Hα ring-like structures</p> <p>We investigated galaxies with Hα 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 Hα rings are measured and good linear relations between bar length and Hα ring radius are found. We reveal that the appearance of Hα star-forming ring-like structure has a strong correlation with bar-induced activities, but not with active galactic nuclei (AGN). The majority of our Hα ring galaxy sample are galaxies which are classified as LINER with $EW(H\alpha) < 3\text{\AA}$. Low luminosity AGN possibly plays a role in inside-out quenching accompanying with Hα ring-like structure. Morphological quenching and bulge show less relation with Hα ring galaxies.</p>

WORK EXPERIENCE

MAY 2017-MAY 2018	<p>President of Youth Astronomy Society (YAS), Peking University</p> <p>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 Astro-photography Group, Meteor Group, etc.</p>
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COMPUTER SKILLS

Skilled Languages: Python, \LaTeX , Mathematica

Basic Knowledge: IRAF, Excel, Word, PowerPoint, Photoshop

LANGUAGES

ENGLISH: Fluent.

TOEFL iBT: 103 (Jan 28, 2018)

Reading: 30; Listening: 26; Speaking: 22; Writing: 25.

CHINESE MANDARIN: Mothertongue

CHINESE DINGXI DIALECT: Fluent

ACTIVITIES

JULY 2018 Mentor, TRAINING FOR CHINESE NATIONAL ASTRONOMY OLYMPIAD TEAM,
Beijing Planetarium, Beijing, China.

JULY 2018 PKU Student Representative, “YOUNG TALENT PLAN” 10 YEAR ANNIVERSARY SYMPOSIUM,
USTC, Hefei, China.

AUGUST 2017 ASIAN SCIENCE CAMP, Kampar, Malaysia.

MAY 2017 KIAA 10th 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 TALKS

JULY 16 2018 *Monitoring Active Galactic Nuclei with $H\beta$ Asymmetry with the Wyoming Infrared Observatory*
by MIKE BROTHERTON (University of Wyoming).

JULY 13 2018 *Highly magnified stars and probes of dark matter substructure*
by LIANG DAI (IAS, Princeton).

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	

