

Chang Liu

UNDERGRADUATE IN ASTRONOMY

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“Explore the universe, benefit the society.”

Education

Peking University

Beijing, China

ASTRONOMY

Sept. 2017 -

- GPA 3.834/4 - Top 2 among ~30 students

Peking University

Beijing, China

LIFE SCIENCES

Sept. 2016 - June. 2017

- GPA 3.869/4 - 1st among ~120 students

Skills

Programming Python, shell, C++, Fortran, LaTeX

Languages Chinese, English

Softwares Photoshop, Lightroom, Illustrator

Experience

Department of Astronomy, Peking University

Beijing, China

UNDERGRADUATE RESEARCH & TRAINING PROGRAM - NATIONAL INNOVATION TRAINING PROGRAM

Jul. 2018 -

- Worked on the chemical impacts of an AGN, especially the impact on the synthesis of prebiotic organic molecules, to indicate the potential correlation between the activity of a supermassive black hole and both the origin and the evolution of life.
- Calculated the ionization rates of electromagnetic radiation caused by accretion the supermassive black hole in the Milky Way, in different galactic distance from the black hole.
- Modified and completed the codes for photo-ionization processes of various atoms and molecules based on the widely used package in astrochemistry - KROME.
- Calculated the chemical evolutions of crucial precursors for interstellar prebiotic molecules.

Extracurricular Activity

Summer Camp of Astronomy for Outstanding Senior Students (Peking University)

Beijing, China

VOLUNTEER

Jul. 2018

- Helped prepare for the welcome day, offered guidance and service to campers

Investigation Group on Bike-sharing in Xiamen (School of Life Science)

Xiamen, China

CORE MEMBER

Jul. 2017

- Investigated the present condition and analysed the future development of several brands of shared bikes in Xiamen, one of the largest cities in South-east China
- In charge of organizing the draft of both our investigation proposal and the report,

Department of Daily Life, Student Union (School of Life Science)

Beijing, China

MEMBER

Sept. 2016 - Jun. 2017

- Organized various activities to improve the life quality including organizing social mixers and designing games for the New Year Party
- Helped design a questionnaire and conducted a census on the current living and studying conditions of students in School of Life Sciences, reflected the problems to the dean and negotiated possible solutions
- In charge of *Calendar of Species* program of the WeChat public account of the Student Union, conducted popular science promotion about various planets in literary essays

Honors & Awards

2018	Merit Student , Annual honor of 2017-2018, School of Physics, Peking University	<i>Beijing China</i>
2018	Weilin Scholarship , Annual scholarship of 2017-2018, School of Physics, Peking University	<i>Beijing, China</i>
2017	Merit Student Pacesetter (the Highest Annual Accolade) , Annual honor of 2016-2017, School of Life Sciences, Peking University	<i>Beijing, China</i>
2017	Arawana Scholarship , Annual scholarship of 2016-2017, School of Life Sciences, Peking University	<i>Beijing, China</i>
2017	Third Prize , The Alumni Cup for Summer Social Practice, School of Life Sciences, Peking University	<i>Beijing, China</i>
2017	Excellent Student Union Member , Annual honor of 2016-2017, Student Union of School of Life Sciences of Peking University	<i>Beijing, China</i>