

Jiachuan Xu



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EDUCATION

Tsinghua University
B.S. in Physics
Cumulative GPA: 88/100, Ranking: 13/52 in the Department of Physics
BEIJING, CHINA
2014.9 – 2018.9(expected)

RESEARCH EXPERIENCE

Tsinghua University
Department of Physics, Tsinghua Center for Astrophysics
Research Assistant, Advisor: Professor Yi Mao
Project: Redshift Space Distortion of the 21 cm Line From The Epoch of Reionization
• Developed a method to correct for the redshift space distortion in the 21cm brightness temperature in numerical simulation.
• Developed a C program to generate redshift space distorted brightness temperature simulation data, and a toolbox to analyse the statistics of observables, e.g. power spectrum, probability distribution function(PDF), etc.
BEIJING, CHINA
2016.6 – Present

University of Arizona
Department of Astronomy
Research Assistant, Advisor: Professor Xiaohui Fan, Professor Zheng Cai
Project: Study of The Overdensity of Lyman Break Galaxy in Proto-cluster BOSS1441
• Reduct optical and infrared images, conduct photometry measurement
• Using 6 bands to deduce photometric redshift, quantifying the overdensity of Lyman Break Galaxy in one of the most massive proto-clusters, BOSS1441
TUCSON, AZ, U.S.A
2018.1 – 2018.5

Conference and Meeting

School On Cosmology, Fudan University
2017 Spring School On Cosmology: "Early Universe: Theory and Observations"
• Accomplished courses on large-scale structure and early universe.
SHANGHAI, CHINA
2017.2
China Astronomical Society
The 19th CAS Guoshoujing Symposium on Galaxies and Cosmology
• Learned the frontiers in galaxies and cosmology.
2016.6
2017 Annual Meeting
• Learned the frontiers in cosmology, large-scale structure and galaxies formation.
2017.8
21cm Cosmology and SKA Workshop and Tianlai Collaboration Meeting
• Learned the scientific goal of Tianlai Project, and instrumental issues.
2017.8, Urumqi

SKILLS

Languages:

- Fluent in English
- GRE: Verbal 155/170, Quantitative 169/170
- TOEFL: 103

Programming Languages:

- Skilled: C, Python, \LaTeX
- Familiar: Mathematica, Fortran
- Be accustomed to work on Linux distribution

SELECTED COURSES

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| • General Relativity 94 | • Differential Geometry 90 |
| • Statistical Mechanics(1) 92 | • Advanced Observational Astrophysics 95 |
| • Astrophysics 93 | • Group Theory 95 |
| • Quantum Mechanics(1) 97 | • Nuclear and Particle Physics 91 |

HONORS & AWARDS

2017 Scholarship of Outstanding Social Work

2015 Scholarship of Outstanding Voluntary Public Service

SOCIAL SERVICES & ACTIVITIES

Team leader of Voluntary Public Service Sector in Youth League Committee

2016.9 – 2017.9