

Jiashu Han

(507) 291-4066
jih178@ucsd.edu
jiashuhan.github.io

- EDUCATION**
- University of California, San Diego August 2019 - present
Doctoral student in physics
 - University of California, Berkeley August 2015 - May 2019
B.A. Physics, B.A. Astrophysics
Cumulative GPA: 3.869/4.000
- RESEARCH**
- Interests: theoretical cosmology, particle physics, inflation, gravitational waves, cosmic microwave background
- Undergraduate:
- Lawrence Berkeley National Laboratory October 2016 - June 2018
Advisors: Dr. Shirley Ho and Dr. Simone Ferraro
Cross-correlation of eBOSS quasars and Planck 2015 CMB lensing
 - Center for Computational Astrophysics June 2018 - August 2018
Advisor: Dr. Shirley Ho
Constraining the quasar bias using cross-correlation of Planck 2015 CMB lensing convergence map and eBOSS LSS quasar catalog
 - Department of Astronomy, UC Berkeley October 2018 - May 2019
Advisor: Dr. Xiangcheng Ma
Effects of CMB on dust emission in high redshift galaxies
- TEACHING**
- Teaching Assistant, UC San Diego
Physics 2C (Introduction to Optics and Thermodynamics) Fall 2019
 - Reader, UC Berkeley
Astronomy 160 (Stellar Physics) Spring 2019
 - Tutor, UC Berkeley
Physics 137A (Quantum Mechanics I) Spring 2018
Computer Science 61B (Data Structures) Fall 2017
- SKILLS**
- Proficient: Python, Java
 - Basic: C/C++, HTML/CSS, Mathematica, IDL, SQL, Scheme
- HONORS AND AWARDS**
- Honors to Date Fall 2017 - Spring 2019
 - Dean's List Spring 2018 - Fall 2018
 - Isidore Pomerantz Endowment Fund Award 2018

PUBLICATIONS

- Han J., Ferraro S., Giusarma E., Ho S. “Probing Gravitational Lensing of the CMB with SDSS-IV Quasars”, 2019, MNRAS, 485, 1720 (arXiv:1809.04196)

COURSEWORK

- Graduate: Classical Electromagnetism, General Relativity, Theoretical Mechanics, Mathematical Physics, Quantum Mechanics I, Quantum Field Theory I
- Undergraduate: Analytic Mechanics, Electromagnetism and Optics, Quantum Mechanics, Statistical and Thermal Physics, Instrumentation and Experimentation Laboratories, Particle Physics, Quantum Information, Relativistic Astrophysics and Cosmology, Optical and Infrared Laboratory, Stellar Physics

LANGUAGES

- English
- Mandarin Chinese (first language)