Jiashu Han

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EDUCATION

- University of California, Berkeley — August 2015 - present
  Majors: Physics, Astrophysics
  Cumulative GPA: 3.85/4.00; Major GPA: 3.91/4.00

RESEARCH EXPERIENCE

- Lawrence Berkeley National Laboratory — October 2016 - June 2018
  Position: Research Affiliate (10 hours/week)
  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
  Position: Summer Research Assistant (40 hours/week)
  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 - present
  Position: Undergraduate Researcher (10 hours/week)
  Advisor: Dr. Xiangcheng Ma
  Constraining dust models and studying the stellar population using the spectral energy distribution from galaxy simulations

TEACHING EXPERIENCE

- Academic Intern, UC Berkeley — August 2017 - December 2017
  Assisted students in lab and guided students with core concepts in Computer Science 61B (Data Structures). 3 hours/week.
- Physics Tutor, UC Berkeley — January 2018 - May 2018
  Assisted students in Physics 137A (Quantum Mechanics I). 5 hours/week.

PUBLICATION

- Han J., Ferraro S., Giusarma E., Ho S. "Gravitational Lensing by CMB in SDSS-IV", 2018, MNRAS, submitted, arXiv:1809.04196

SKILLS

- Python, Java, IDL, C/C++, HTML, Mathematica, SQL, Scheme

RESEARCH INTERESTS

- Computational astrophysics, CMB, large scale structures, galaxy formation and evolution, neutrino physics, quantum information

HONORS AND AWARDS

- Dean's List, UC Berkeley — 2018
- Isidore Pomerantz Endowment Fund Award, UC Berkeley — 2018

RELATED COURSEWORK

- Classical Mechanics, Electromagnetism and Optics, Quantum Mechanics, Thermal and Statistical Mechanics, Electronics Lab, Cosmology, Stellar Physics, Particle Physics, Optical and Infrared Astronomy Lab, Quantum Information, Classical Electrodynamics, Data Structures