

RICHARD CHEN

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EDUCATION

University of California – Berkeley

2017-2021

GPA – 3.77

B.A. Physics, B.A. Computer Science

Courses:

Physics/Math: Multivariable Calculus, Introductory Mechanics and Relativity, Introduction to Experimental Physics I/II, Introductory Electromagnetism/Waves/Optics, Introductory Thermodynamics and Quantum Physics, Mathematical Techniques in Physics

CS: Data Structures/Algorithms, Designing Information Devices and Systems, Introduction to Computational Techniques in Physics, Discrete Math and Probability, Structure/Interpretations of Computer Programs

WORK HISTORY

UC Berkeley EECS Department, EE16A Tutor/Reader

August 2018 – Present

- Member of course staff for Designing Information Devices and Systems
- Homework staff – grading homework's, leading homework parties, office hours
- Lab staff – guiding students understanding in lab sections

Lawrence Berkeley National Laboratory, Student Researcher

May 2018 - Present

- Student Researcher under Dr. Paul Fallon
- Analysis of GRETINA collected data using C++ and ROOT
- Using data analysis to identify disparities between simulations and collected data

Lawrence Berkeley National Laboratory, Student Researcher

2017-May 2018

- Undergraduate Research Apprentice Program under Dr. Akito Kusaka
- Implementation/build of the POLARBEAR2 experiment for B mode polarization in the CMB
- Designing the CHillCalc website for CMB researchers for telescope calibrations

Space Power and Propulsion Laboratory, University of Maryland, Student Researcher

2016

- Designed, built and implemented a Triple Langmuir Probe for measurement of electron temperature of plasma generated by a Superconducting Helicon Thruster
- Created and measured plasma inside a vacuum chamber
- Designed circuitry of the probe

National Institute of Standards and Technology, Student Researcher

2015

- Material Measurement Laboratory under Dr. David LaVan and Dr. Feng Yi
- Annealed and calibrated nanocalorimetry sensors
- Designed chip holders with SolidWorks 3D modeling software

HONORS & ACTIVITIES

NATAS 45th Annual Co-author

2018

- “Sample Coverage and Temperature Distribution in Nanocalorimetry Measurements”

Academic Intern for Structure of Computer Programs (CS 61A) at UC Berkeley

2018

USAPhO Competition, Qualifier

2017

Regeneron Science Talent Search Competition (Formerly Intel STS), Semifinalist

2017

SKILLS

Languages: Java, Python, C++, Scheme, HTML/CSS, JavaScript, Matlab, ROOT

Applications: Flask