RICHARD CHEN

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EDUCATION

University of California – Berkeley 2017-2021

GPA – 3.77

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

Courses: Multivariable Calculus, Data Structures, Structure/Interpretations of Computer Programs, Introductory Mechanics and Relativity, Introductory Electromagnetism/Waves/Optics, Designing Information Devices and Systems, Introduction to Computational Techniques in Physics

WORK HISTORY

Lawrence Berkeley National Laboratory, Student Researcher May 2018 - Present

- Student Researcher under Dr. Paul Fallon
- Analysis of GRETINA collected data
- 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 at UC Berkeley 2018

USAPhO Competition, Qualifier 2017

Regeneron Science Talent Search Competition (Formerly Intel STS), Semifinalist 2017

Highschool Captain of Physics Team 2016

Highschool Captain of Chemistry Team 2016

Highschool Captain of Science National Honor Society 2016

McMasters Physics Competition, Honorable Mention 2015

UMD Math Competition Part II, Qualifier (Top 10%) 2013-2015

SKILLS

Languages: Java, Python, Scheme, HTML, Matlab

Applications: Flask, SolidWorks