

Anisha Yeddanapudi

anishay2016@gmail.com

Education

Undergraduate.....

University of California, Berkeley: B.A. in Applied Math and Physics with a concentration in Solid State Physics (GPA: 3.75/4.00)

San Joaquin Delta College: Concurrent enrollment during high school

Work Experience

Research.....

Analytis Lab: University of California, Berkeley

JANUARY 2022 - MAY 2023

Worked on projects regarding the synthesis and characterization of new magnetic and superconducting materials, and devices fabricated from these materials. Specifically, analyzing the synthesis of $4\text{Hb-TaS}_{2-x}\text{Se}_x$ (the 4Hb polytype of tantalum-disulfide) and its newfound properties. Reference: Dr. Ryan Patrick Day.

Kolomensky Lab: University of California, Berkeley

JANUARY 2022 - PRESENT

Worked on analyzing the neutron-induced gamma ray background of ^{100}Mo to improve CUPID (CUORE with Updated Particle IDentification), an experiment designed to search for neutrinoless double beta decay. Reference: Dr. Erin Hansen.

Nanotech At Berkeley: University of California, Berkeley

JANUARY 2022 - 2023

Worked on the functionalization and growth of carbon-nanotubes and helped develop a multi-analyte array platform along with carbon nanotube based biosensors, software for data processing, and energy storage technologies. Reference: Dr. Khalid Waquas.

Garcia Lab: University of California, Berkeley

MAY 2023 - PRESENT

The goal of the project was to understand changes in the gene regulatory input-output function when varying specific parameters such as time and anterior-posterior positions within the fruit fly embryo. Reference: Yasemin Kiriscioglu.

Software.....

MetaMahaw

SUMMER 2022

Developed the front end using CSS/HTML and Javascript for a crypto currency and metaverse startup.

Publications/Presentations

❖ Neutron-induced γ -ray background on ^{100}Mo relevant to $0\nu\beta\beta$ searches at CUPID

J. Camilleri, S.W Finch, W. Tornow, E.V. Hansen, Y.G. Kolomensky, S.V. Puranam, V. Singh, **A. Yeddanapudi**, Z. Zhang, & M. Kidd, [jornal], vol. [volume], no. [number], 2023, pp. [pages]. arXiv

❖ Measurements of Neutron-Induced Gamma Ray Background of ^{100}Mo for CUPID [Poster]

S.V. Puranam, and **A. Yeddanapudi**. Fall Meeting of the Division of Nuclear Physics of the American Physical Society. Oct 27-30, 2022. Hyatt Regency Hotel, New Orleans, LA

◆ Physics for All
A. Yeddanapudi,

Conference Talks

Fall Meeting of the Division of Nuclear Physics of the APS: New Orleans, LA OCTOBER 2022
S. Puranam, and **A. Yeddanapudi**, (October 2022). *Measurements of Neutron-Induced Gamma Ray Background of ^{100}Mo for CUPID.*

Affiliations

ULAB: University of California, Berkeley. AUGUST 2021- MAY 2022
Worked on research into the Faraday Effect and its relation to radio waves and FRBS (Fast Radio Bursts) at the Undergraduate Lab at Berkeley (ULAB).

PDRP: University of California, Berkeley. AUGUST 2021- MAY 2022
Involved in the Physics Directed Reading Program (PDRP) at UC Berkeley. I was partnered with a graduate student mentor to analyze and understand new publications in current physics research.