CLEO LEPART

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Junior Physics Student

CORE PROFICIENCIES

- C++
- Python
- Excel

- Technical Writing
- 3D Printing
- Data Collection/Analysis

- Differential Calculus
- Linear Algebra
- French, Spanish, Russian language

EDUCATION

Pursuing: Bachelor of Arts Degree in Physics

Currently attending University of California, Berkeley, August 2022 - Present Dean's Highest Honors, GPA 3.8

Activities

President of SRJC Society of Physics Students, Fall 2020 – Spring 2021
Physics conference and colloquia enthusiast
Amateur tennis player and rock climber

RELEVANT COURSEWORK & SKILLS

Programming

- Experience with Python's numerical/graphing methods in online SPS-led Astrophysics course at Univ. of AZ
- Completed 1st and 2nd-semester C++ courses, Functions to Abstract Data Types
- Designed and fabricated 3D-printed mechanical stage parts for optical interferometry
- Applied Python data analysis methods, SciKit, AstroPy and database retrieval, SQLite, on spectroscopy data
- Completed online MITx: Introduction to Programming with Python

Math

- Achieved an A as a summer student at UC Berkeley in Linear Algebra and Differential Equations
- Experience with Mathematica's 3D graphing in 3rd semester Multivariable Calculus

Physics

Completed courses: Classical Mechanics, Thermodynamics & Optics, Electromagnetism, Modern Physics

PROFESSIONAL EXPERIENCE

AFFILIATE RESEARCH VOLUNTEER | Lawrence Berkeley National Laboratory, Berkeley, CA | June 2021 to Present

- As a DOE Summer Undergraduate Laboratory Intern, I began work on the Dark Energy Spectroscopic Instrument project, to detect outlier, anomalous multi-messenger and tidal disruption events purely through cosmological spectroscopic data
- Self-taught familiarity with statistical analysis, numerical data analysis in Python, AstroPy, and SQLite for database communication

PHYSICS TEACHING ASSISTANT | Santa Rosa Junior College | January 2020 - May 2022

- Provides guidance and direction via group and individual tutoring to improve STEM and analytical skills for students in math and physics
- Developed supplementary coursework for Intermediate Algebra, Electromagnetism, Classical Mechanics, responsibility for non-exam grading

ASSISTANT PRODUCER | Old Navy, San Francisco, CA | September 2015 to January 2019

- Employed for ability with spreadsheet and data management in Excel in office and on location
- Created scripts and contributed improved processes for data-entry accuracy and data manipulation in Excel

ESOL & RUSSIAN INSTRUCTOR | International Institute for Management, Algiers, Algeria | February 2014 to February 2015

- Responsible for teaching grammar, conversation, reading and writing to adults and adolescents of all levels
- Designed curriculum tailored to specific goals: e.g. improving idiomatic understanding, increasing scores on standardized English language exams

FURTHER LANGUAGE EXPERIENCE |

- Attended University College London for 3 semesters (2011 2012) in the Russian program at the School of Slavonic & Eastern European Studies
- Lived in Paris for 3 years, becoming fluent in French, earning certificates in French, Arabic and French-to-English translation
- Studied Russian at private and public schools in Russia, St. Petersburg (2010) and Kazan (2012)