

CLEO LEPART

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Junior Physics Student

CORE PROFICIENCIES

- | | | |
|----------|----------------------------|-------------------------------------|
| ▪ C++ | ▪ Technical Writing | ▪ Differential Calculus |
| ▪ Python | ▪ Spectroscopy | ▪ Linear Algebra |
| ▪ Excel | ▪ Data Analysis/Processing | ▪ French, Spanish, Russian language |

EDUCATION

Pursuing: Bachelor of Arts Degree in Physics

Currently attending University of California, Berkeley, August 2022 - Present

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

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| Programming | <ul style="list-style-type: none">▪ Applied Python data analysis methods, SciKit, AstroPy and database retrieval, SQLite, on spectroscopy data▪ 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 in Fusion360▪ Completed online MITx: Introduction to Programming with Python |
| Math | <ul style="list-style-type: none">▪ 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 | <ul style="list-style-type: none">▪ Completed courses: Classical Mechanics, Thermodynamics & Optics, Electromagnetism, Modern Physics, Seminar course in General Relativity |

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)