

# Jacob Bryon

Student, Researcher, Teacher

## about

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## languages

Fluent: English  
Proficient: German

## programming

C/C++  
ROOT  
Python  
Mathematica  
JavaScript  
CSS & HTML  
LaTeX

## Lab Skills

Metal Work  
Machining  
Autocad  
Cryogenics  
CVT Synthesis  
Physics Simulations

## Soft Skills

Time Management  
Presentation  
Multitasking

## Affiliations

-UC LEADS  
-American Physical  
Society (APS)  
-Society Physics  
Students  
-PEACE Tutoring

## interests

experimental condensed matter physics, electrical engineering (focus on physical devices)  
device fabrication, quantum materials, topological insulators, quantum computing

## education

- 2014-2018 **UC Berkeley: B.A Physics** with honors Berkeley, CA  
3.6 GPA;  
*Thesis: "Effect of Strain on the Charge Density Wave State in Low Dimensional Materials"*
- 2013-2014 **Cape Fear Community College** Wilmington, NC  
4.0 GPA
- 2010-2014 **Eugene Ashley High School** Wilmington, NC  
4.0 GPA

## experience

- May 2015 - Present **UC Berkeley, Alex Zettl Physics Research Group**  
Undergraduate Researcher  
*Condensed Matter Physics Group. Crystal synthesis, electrical transport on low D materials*
- June 2017 - Nov. 2017 **UCLA, Huan Huang Physics Research Group**  
Summer Research Internship  
*Nuclear Physics Group. Programming simulations, data analysis*
- June 2016 -Present **The Princeton Review**  
MCAT Physics Instructor  
*Teach and tutor students for MCAT physics*
- August 2015 -August 2016 **Berkeley Student Cooperative**  
Administrative Committee Board Member  
*Make administrative decisions on cases brought to board*
- August 2014 -Present **UC Berkeley Art Museum Pacific Film Archive**  
Gallery Attendant  
*Protect art work in exhibitions and act as a liaison to patrons*

## publications

- 2018  
Fufang Wen, **Jacob Bryon**, Liwen Wen, and Gang Wang. (2018) *Event-shape-engineering study of charge separation in heavy-ion collisions* Chinese Physics C, <http://doi.org/10.1088/1674-1137/42/1/014001>