

# Jacob Bryon

Student, Researcher, Teacher

## about

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Berkeley, CA, 94709

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

## experience

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

## 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>