Charles (Charlie) Sowerby

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Education

June 2021 (Expected)	University of California, Los Angeles - Bachelor of Science Majors: Physics & Mathematics GPA: 3.56/4.00
June 2017	University of Chicago, Laboratory Schools (High School)

Relevant Coursework Major GPA: 3.61

Physics	Analytic Mechanics (105 A) Electricity and Magnetism (110 A, B) Quantum and Mechanics (115 A, B, C) Thermodynamics (112) Mathematical Methods of Physics (131 A)
Mathematics	Multivariable Calculus Linear Algebra (115 AH) Abstract Algebra (110 AH, BH, C) Real Analysis (131 AH, BH) Differential Geometry (120A) (Point-Set) Topology (121)
Computer Science	Intro to Computer Science in C++ (31, 32) Computer Architecture (High School)

Work and Extra Curricular Experience

Spring 2020	Undergraduate Researcher - Camera Module *Basic Plasma Science Facility, UCLA* Worked on a low latency, inexpensive camera module alternative for rapid plasma imaging.
Spring 2020	Independent Study in Smooth Manifolds *UCLA Mathematics* Studied Smooth/Riemannian Manifolds with the help of UCLA graduate student Nicholas Boschert, using John Lee's *Smooth Manifolds* as a reference text.
Winter 2020	Undergraduate Grader *Physics 131A* Graded homework assignments for Physics 131A: Mathematical Methods in Physics.
March-June 2019	Undergraduate Researcher - Relay Circuit *Basic Plasma Science Facility, UCLA* Worked during the school year to build and program a Raspberry Pi controlled relay circuit to be used for plasma diagnostics.
Spring 2019	Peer Reviewer *Undergraduate Science Journal, UCLA*

Other Skills

Languages	Python, C++, LaTeX, HTML/CSS, Mathematica, Matlab German

Awards & Honors

Undergrad	College Honors Program	2017 - Present
	Deans Honors List	Fall 2017, Winter 2020