

## Jacob H. Nie

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Education	University of California, Santa Barbara, B.S. Physics (expected) 2020 – 2024 Monta Vista High School, Cupertino, CA 2016 – 2020
Selected Academic Honors	<b>Rudolf Ortway Int'l. Competition in Physics</b> , Second Prize November 2019 <ul style="list-style-type: none"><li>Two week long online competition hosted by the Eotvos University in Budapest.</li><li>Received second prize internationally among college students while competing as a high school senior; top score among first year undergraduates and below</li></ul> <b>USA Physics Olympiad</b> , Gold Medalist, National Camp Attendee June 2019 <ul style="list-style-type: none"><li>The top 20 scorers nationally on the USAPhO are invited to this rigorous ten-day camp at the University of Maryland College Park, which selects the team for the International Physics Olympiad through written examinations and laboratory work.</li></ul> <b>Princeton University Physics Competition</b> , Gold Medalist November 2018 <ul style="list-style-type: none"><li>Awarded 7th place and a gold medal in this national competition hosted by college students for high schoolers.</li></ul>
Skills	Proficient in Python 3 and L <sup>A</sup> T <sub>E</sub> X Familiar with C++ and MATLAB and Mathematica
Coursework	<b>Personal Self Study</b> 2017 – present Physics: <ul style="list-style-type: none"><li><i>Physics</i> by Resnick, Halliday, and Krane</li><li><i>Introduction to Classical Mechanics</i> by Morin</li><li><i>Electricity and Magnetism</i> by Purcell</li><li>(in progress) <i>Vibrations and Waves</i> by French</li><li>(in progress) <i>Principles of Quantum Mechanics</i> by Shankar</li></ul> Mathematics: <ul style="list-style-type: none"><li>MIT OCW 18.02 - Multivariable Calculus</li><li><i>Div, Grad, Curl</i> by Schey</li><li>(in progress) <i>Introduction to Linear Algebra</i> by Strang</li><li>(in progress) <i>Elementary Differential Equations with Boundary Value Problems</i> by Edwards and Penney</li></ul> Programming: <ul style="list-style-type: none"><li>MIT OCW 6.0001/2 - Introduction to Computer Science and Programming in Python</li><li>MIT OCW 6.096 - Introduction to C++</li></ul>
Work Experience	<b>Private Physics and Mathematics Tutoring</b> , Cupertino, CA 2017 – 2019 <ul style="list-style-type: none"><li>Prepared middle and high school students for both school math/physics and competitive math/physics.</li></ul>