

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	Rudolf Ortway Int’l. Competition in Physics , Second Prize November 2019 <ul style="list-style-type: none">Two week long online competition hosted by the Eotvos University in Budapest.Received second prize internationally among college students while competing as a high school senior; top score among first year undergraduates and below USA Physics Olympiad , Gold Medalist, National Camp Attendee June 2019 <ul style="list-style-type: none">Scored in the top 20 nationally (unranked) to receive an invitation to the national training camp at the University of Maryland, which selects the team for the International Physics Olympiad through written examinations and laboratory work. Princeton University Physics Competition , Gold Medalist November 2018 <ul style="list-style-type: none">Awarded 7th place and a gold medal in this national competition hosted by Princeton students for high school students.
Skills	Proficient in Python 3 and L ^A T _E X Familiar with MATLAB and Mathematica
Coursework	Personal Self Study 2017 – present Physics: <ul style="list-style-type: none"><i>Physics</i> by Resnick, Halliday, and Krane<i>Introduction to Classical Mechanics</i> by Morin<i>Electricity and Magnetism</i> by Purcell<i>Vibrations and Waves</i> by French(in progress) <i>Principles of Quantum Mechanics</i> by Shankar(in progress) <i>Mechanics</i> by Landau and Lifshitz Mathematics: <ul style="list-style-type: none"><i>Div, Grad, Curl</i> by Schey<i>Introduction to Linear Algebra</i> by Strang<i>Elementary Differential Equations with Boundary Value Problems</i> by Edwards and Penney(in progress) <i>Mathematical Methods for Physics and Engineering</i> by Riley, Hobson, and Bence
Work Experience	Private Physics and Mathematics Tutoring , Cupertino, CA 2017 – 2019 <ul style="list-style-type: none">Prepared middle and high school students for both school math/physics and competitive math/physics.