

Jacob H. Nie

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Education	UC Santa Barbara, B.S. Physics (expected) 2020 – 2024
	Monta Vista High School, Cupertino, CA 2016 – 2020
Selected Academic Honors	<p>Rudolf Ortway Int’l. Competition in Physics, Second Prize November 2019</p> <ul style="list-style-type: none">• Two week long online competition hosted by the Eötvös 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 <p>USA Physics Olympiad Team Training Camp, Invitee June 2019</p> <ul style="list-style-type: none">• The top 20 scorers 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 examination and laboratory work. <p>USA Physics Olympiad, Gold medal April 2019</p> <ul style="list-style-type: none">• Top 20 nationally (unranked) <p>Princeton University Physics Competition, Gold Medal November 2018</p> <ul style="list-style-type: none">• 7th place nationally
Skills	Proficient in Python and \LaTeX Familiar with MATLAB and Mathematica
Coursework	<p>Personal Self Study 2017 – present</p> <p>Physics:</p> <ul style="list-style-type: none">• <i>Physics</i> by Resnick, Halliday, and Krane (Mechanics, Waves, Relativity, Thermodynamics, Electromagnetism, Optics)• <i>Introduction to Classical Mechanics</i> by Morin (Mechanics, Relativity, some Lagrangian)• <i>Electricity and Magnetism</i> by Purcell and Morin• (in progress) <i>Vibrations and Waves</i> by French <p>Mathematics:</p> <ul style="list-style-type: none">• MIT OCW 18.02 (Multivariable Calculus)• <i>Div, Grad, Curl</i> by Schey (Vector Calculus)• (in progress) <i>Introduction to Linear Algebra</i> by Strang• (in progress) <i>Elementary Differential Equations</i> by Edwards and Penney <p>Programming:</p> <ul style="list-style-type: none">• MIT OCW 6.0001/2• <i>Introduction to Computation and Programming with Python</i> by Guttag
Experience	<p>Private Physics and Mathematics Tutoring, Cupertino, CA 2017 – 2019</p> <ul style="list-style-type: none">• Prepared middle and high school students for both school math/physics and competitive math/physics.