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EDUCATION	<p>University of California, Berkeley, Berkeley, CA 2021 - 2025 (expected)</p> <ul style="list-style-type: none"> Intended Majors: Astrophysics, Applied Math, & Computer Science, Current GPA: 4.0. <p>Stanford Pre-Collegiate University-Level Online Math, Online. 2020-2021</p> <ul style="list-style-type: none"> Courseworks: Linear Algebra (A), Multivariable Calculus (A+A) <p>Suzhou High School of Jiangsu Province, Suzhou, Jiangsu, China. 2018-2021</p> <ul style="list-style-type: none"> Honors: S.-T. Yau High School Science Award (Physics) Second Prize, NHSMUN Best Delegate, SMUN Outstanding Delegate, AP Scholar ('19, '20, '21), Fan Zhongyan Scholarship ('20, '21). Received 11 5s in AP Exams including Physics 1/2/Mechanics/E&M, Calculus BC, Chemistry, & Computer Science A. <p>Phillips Exeter Academy Summer, Exeter, NH. 2018-2018</p> <ul style="list-style-type: none"> Courseworks: Writing (Honor Grade), Quantum Physics and Relativity (Honor Grade), Astrophysics (Honor Grade), Lifeguarding (Certified), Orchestra (Piano), & Harp. 	
RESEARCH EXPERIENCE	<p>Summer Science Programs, Astrophysics, Student Researcher. Jun. 2020 – Jul. 2020.</p> <ul style="list-style-type: none"> Operated research-grade telescopes and manipulated JPL-Horizons to take images of the asteroids; Performed data reduction with AstroImageJ and SAO DS9; Drafted report and published the data to Minor Planet Center; Calculated its six orbital elements of 2003 GE42 with Method of Gauss based on Python; Completed an error analysis with Monte Carlo simulations; Predicted the chance of the asteroid Earth impacting in the future; Wrote a 32-page paper of 2003 GE42 Orbital Determination paper in a group of three. <p>Polar Institute of China, Theoretical Physics, Student Researcher. Mar. 2020 – Dec. 2020.</p> <ul style="list-style-type: none"> Conducted research in a theoretical method of detecting early exoplanets through gravitational microlensing singularly, including discussing superluminal motion, cosmological distances, machine learning algorithms for auto-classifying microlensing events; Conducted graph-making, model-fitting, calculations, and simulations with Python; Wrote a 46-page paper & presented at Fudan University; awarded for S.-T. Yau High School Science Award. <p>Independent Research, Exoplanet, Student Researcher. Jan. 2020 – Mar. 2020.</p> <ul style="list-style-type: none"> Conducted research on Transit Time Variations and its Application in Detecting & Characterizing Unseen Planets with Discussion in Kepler-46, including discussing mean motion resonance and analyzing the stability of the different systems, graphing and simulating with Python, guided by Professor Tucker from Brown University. 	
SKILLS	<p>Programming Languages:</p> <ul style="list-style-type: none"> Python (NumPy/SciPy/AstroPy/Matplotlib/VPython/Pandas/Scikit-learn), Java, R, Javascript, MATLAB. <p>Computer Software:</p> <ul style="list-style-type: none"> LaTeX, AstroImageJ, SAO DS9, Stellarium, G Suite, Microsoft Office, Adobe Premiere Pro, Notion. <p>Languages:</p> <ul style="list-style-type: none"> English, Mandarin (Fluent), French (Intermediate). 	