

## Matthew Li

469-920-6034 | [mattli@stanford.edu](mailto:mattli@stanford.edu) | [LinkedIn](#)

### EDUCATION

<b>Stanford University</b>	<b>June 2028</b>
<i>Bachelor of Science in Mathematics</i>	<i>Stanford, California</i>
<ul style="list-style-type: none"><li>GPA: 4.0</li><li>Notable Coursework: Linear Algebra, PDEs (Analysis), Stochastic Methods, Deep Reinforcement Learning</li><li>Organizations: Stanford Robotics Club (Autonomous Drone Delivery), Stanford Mathematical Organization</li></ul>	

### EXPERIENCE

<b>Optiver</b>	<b>Mar 2025 - Present</b>
<i>2026 Quantitative Trading Intern, Future Focus Program Participant</i>	<i>Chicago, IL</i>
<ul style="list-style-type: none"><li>Implemented market making, mean reversion, and pairs trading algorithms in simulated environments</li><li>Engaged in options theory lectures and traded options structures against others in open outcry games</li></ul>	
<b>Zong Lab - Stanford University</b>	<b>Mar 2024 - Present</b>
<i>Physics Researcher</i>	<i>Stanford, CA</i>
<ul style="list-style-type: none"><li>Developed algorithms in C to classify phonon excitations in superconductive materials</li><li>Designed interactive interface and control software to align lab equipment and streamline data collection</li></ul>	
<b>Krokhin Lab - University of North Texas</b>	<b>Sep 2022 - Nov 2024</b>
<i>Physics Researcher</i>	<i>Denton, TX</i>
<ul style="list-style-type: none"><li>Utilized parallel processing in Python and wrote Bash scripts for the Lonestar6 supercomputer to decrease the runtime of sound wave propagation models by a factor of 128</li><li>Created a clustering algorithm that successfully classified band structure eigenvalues in a noisy dataset</li><li>Developed computational methods using SciPy and NumPy to solve quadratic eigenvalue problems</li><li>Modeled systems governed by the Navier-Stokes equations using the Fourier transform</li><li>Presented work twice at the National Science Foundation Emerging Researchers National Conference</li></ul>	
<b>AWARDS</b>	
<ul style="list-style-type: none"><li><b>Silver Medallist, United States Physics Olympiad:</b> Top 1% in national theoretical physics exam</li></ul>	<b>May 2024</b>
<ul style="list-style-type: none"><li><b>Best Undergraduate Physics Presentation, National Science Foundation Research Conference</b></li></ul>	<b>Mar 2024</b>
<ul style="list-style-type: none"><li><b>2x AIME Qualifier:</b> Top 5% in national mathematics exam</li></ul>	<b>Feb 2023, 2024</b>
<ul style="list-style-type: none"><li><b>15th Nationally, Princeton Physics Competition</b></li></ul>	<b>Jan 2023</b>
<ul style="list-style-type: none"><li><b>All State Cellist:</b> Top 16 cellist in Texas</li></ul>	<b>Feb 2021</b>

### VOLUNTEER WORK

<b>Teaching Fellow at Breakthrough New York, 501(c)(3)</b>	<b>Jun - Aug 2024</b>
<ul style="list-style-type: none"><li>Taught two 9th grade classrooms math full time using a personally developed curriculum</li><li>Led extracurricular activities such as an egg drop, talent show, and card writing for veterans</li></ul>	
<b>Math Extensions at Evers Park Elementary School</b>	<b>Oct 2023 - May 2024</b>
<ul style="list-style-type: none"><li>Founded biweekly in-school math program for 5th grade class at a Title 1 elementary school</li></ul>	
<b>President of UNT IntelliChoice Club</b>	<b>Mar 2023 - May 2024</b>
<ul style="list-style-type: none"><li>Organized 450 hours of tutoring for students at a local public library</li></ul>	

### SKILLS

Python, Pytorch, C++