Matthew Li

469-920-6034 | mattli@stanford.edu | LinkedIn

EDUCATION

Stanford University   **June 2028**
Bachelor of Science in Mathematics   *Stanford, California*
- GPA: 4.0
- Notable Coursework: Linear Algebra, PDEs (Analysis), Stochastic Methods, Deep Reinforcement Learning

EXPERIENCE

Optiver   **Mar 2025 - Present**
Incoming Quantitative Trading Intern, Summer 2026   *Chicago, IL*
- Excelled in the five-day Optiver Future Focus Trading Program, resulting in a Summer 2026 internship offer
- Implemented market making, mean reversion, and pairs trading algorithms in simulated environments
- Engaged in options theory lectures and traded options structures against others in open outcry games

Zong Lab - Stanford University   **Mar 2025 - Present**
Physics Researcher   *Stanford, CA*
- Developed algorithms in C to classify phonon excitations in superconductive materials

Krokhin Lab - University of North Texas   **Sep 2022 - Nov 2024**
Physics Researcher   *Denton, TX*
- 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
- Created a clustering algorithm that successfully classified band structure eigenvalues in a noisy dataset
- Developed computational methods using SciPy and NumPy to solve quadratic eigenvalue problems
- Modeled systems governed by the Navier-Stokes equations using the Fourier transform
- Presented work twice at the National Science Foundation Emerging Researchers National Conference

AWARDS

- **Silver Medallist, United States Physics Olympiad:** Top 1% in national theoretical physics exam   **May 2024**
- **Best Undergraduate Physics Presentation, National Science Foundation Research Conference**   **Mar 2024**
- **2x AIME Qualifier:** Top 5% in national mathematics exam   **Feb 2023, 2024**
- **15th Nationally, Princeton Physics Competition**   **Jan 2023**
- **All State Cellist:** Top 16 cellist in Texas   **Feb 2021**

VOLUNTEER WORK

Teaching Fellow at Breakthrough New York, 501(c)(3)   **Jun - Aug 2024**
- Taught two 9th grade classrooms math full time using a personally developed curriculum
- Led extracurricular activities such as an egg drop, talent show, and card writing for veterans

Math Extensions at Evers Park Elementary School   **Oct 2023 - May 2024**
- Founded biweekly in-school math program for 5th grade class at a Title 1 elementary school

President of UNT IntelliChoice Club   **Mar 2023 - May 2024**
- Organized 450 hours of tutoring for students at a local public library

SKILLS

Python, Pytorch, C++