Logan Bell

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EDUCATION

Stanford University (Sep. 2020 – Present)
Pursuing B.S. Mathematics
- Relevant Coursework: Graduate Theory of Probability I & II, Convex Optimization, Linear Dynamical Systems, Design & Analysis of Algorithms, Theory of Partial Differential Equations

Lakeland Community College (Sep. 2017 – May 2020)
Obtained A.S. and A.A.; Graduated summa cum laude

Lake Erie College (Sep. 2018 - May 2020)
Dual-Enrolled in High School

WORK EXPERIENCE

Stanford Undergraduate Research Institute in Mathematics (Jun. 2021 – Aug. 2021)
Worked as a Student Researcher
- Developed novel mathematical proofs of connection between combinatorics and representation theory in collaboration with three academic colleagues
- Produced a forty-five page survey of existing research and group contributions
- Co-presented findings in fifty-minute presentation to other student researchers and Stanford professors

EXTRACURRICULARS

Personal Algorithmic Trading Project (Nov. 2021 - Present)
- Implementing and cross-validating a model to predict short-term price changes in the S&P 500 using historical data

Blyth Fund Analyst (Jan. 2022 - Present)
- Learning about fundamental analysis and portfolio management

Breakthrough Junior Challenge (Jun. 2019)
- Animated an original explanation of the RSA encryption algorithm using manim, an open-source Python package

Independent Mathematics Research (Apr. 2018 – Jun. 2019)
- Presented at three local math conferences about personal research topics, such as roulette curves and Shor's algorithm

SKILLS

Mathematics Research

Julia

Python

Numerical Optimization

Data Visualization

C++

INTERESTS

- Probability Theory
- Data Analysis
- Statistical Modeling
- Optimization
- Algorithmic Trading

AWARDS

- 2020 USA Mathematical Talent Search Silver Medal
- 2019 Coolidge Senator
- 2018 Lakeland Outstanding Mathematics Student

My Website