Logan Bell

lmbell@stanford.edu https://web.stanford.edu/~lmbell

EDUCATION

M.S. Computational & Mathematical Engineering Stanford University
Sep. 2022–Jun. 2024 GPA: 3.844

- Relevant Coursework: Large-Scale Convex Optimization and Monotone Operators, Numerical Linear Algebra, Stochastic Methods in Engineering, Machine Learning, Optimal Control, Numerical Methods for PDEs

B.S. Mathematics Stanford University
Sep. 2020–Jun. 2024 GPA: 3.953

- Relevant Coursework: Graduate Theory of Probability III, Graduate Theory of Statistics III, Graduate Analysis, Modern Markov Chains
- Summer Research Paper, 2021: *Around Tokuyama's Formula* with Santi Aranguri, Chavdar Lalov, and Robin Truax, supervised by Slava Naprienko

A.A. and A.S. Lakeland Community College
Sep. 2017–May 2020 GPA: 4.000

EXPERIENCE

AI Labs Intern BlackRock AI Labs
Jun. 2022–Jan. 2024 Palo Alto, CA

- Designed a tax-advantageous portfolio optimization strategy
- Created a statistical model for asset data to generate realistic asset universes and data trajectories using Python
- Implemented a backtesting suite and accompanying tax-accounting software to assess the strategy's performance using Python, CVXPY, and Pandas
- Provided a methodology for reducing portfolio risk, with backtests demonstrating improved Sharpe ratio without sacrificing returns

Student Researcher Stanford University
Sep. 2023–Present Stanford, CA

- Conducting research in CVXgroup with Stephen Boyd and colleagues
- Utilizing JAX for implementations of numerical methods and custom solvers

TEACHING

Head Teaching Assistant EE 364A (Convex Optimization)
Jan. 2024–Mar. 2024 Stanford University

Teaching Assistant EE 364A (Convex Optimization)
Jan. 2023–Mar. 2023 Stanford University

RESEARCH

Logan Bell, Nikhil Devanathan, Stephen Boyd. *Efficient Shapley Performance Attribution for Least-Squares Regression.* Under review.