

WORK EXPERIENCE

Susquehanna International Group, Bala Cynwyd, PA October 2018–present

Trader — International ETF Options

- Trade options on international equity ETFs and silver, crude oil, and refined product futures and ETFs in both market-making and proprietary roles.
- Analyze commodity market fundamentals using Python and historical price and volatility data in order to devise and execute profitable trading strategies.
- Manage the risks associated with a complex options book to lower variance and isolate profits.
- Construct numerous Excel spreadsheets interfacing with firm SQL databases to analyze and summarize position risk and PnL, ensure consistency of theoretical values, and track order flow.

Assistant Trader — Fixed Income ETFs, Equity Options August 2017–October 2018

- Traded investment-grade corporate bonds for the fixed income ETF market-making desk and executed customer trades for the equity options institutional sales desk.
- Developed various Excel- and Python-based processes to optimize the creation and redemption of ETF baskets, consolidate information for traders, analyze market data, and identify trading opportunities.
- Completed an extensive ten-week training course on equity option pricing theory and trading strategies.
- Collaborated on a quantitative research project to construct, backtest, and present a successful trading strategy.

Prudential Financial, Newark, NJ — *Summer Investment Analyst* Summer 2015

- Developed an illustrative Excel model, contributed policy analysis, and validated production code for the Capital Markets Hedging group in support of hedging variable annuity living benefit riders.

UBS Wealth Management, Princeton, NJ — *Junior Business and Operations Analyst* Summer 2014

- Assisted with expanding the wealth management practice of a senior vice president.

RESEARCH EXPERIENCE

“Illiquidity Risk and Capital Structure of Financial Institutions” September 2016–April 2017

Senior Thesis with Professor Stephen Morris, Princeton University

- Studied the interaction between banks and their creditors in light of illiquidity risk, insolvency risk, and the threat of bank runs by constructing a game-theoretic framework and applying numerical analysis.

“The Effect of Right-to-Work Laws on Union Membership and Wages” September 2015–April 2016
(Published in the *Columbia Economics Review*, fall 2016)

Junior Independent Research with Professor Henry Farber, Princeton University

- Studied the effect of recent right-to-work laws in Indiana and Michigan on private-sector labor union membership and wages by using a statistical regression model on US Census Bureau data.

EDUCATION

Princeton University, Princeton, NJ June 2017

- A.B. in Economics; Certificates in Finance, Applications of Computing, and Statistics and Machine Learning
- *Honors: summa cum laude* (cumulative GPA: 3.95/4.0; departmental GPA: 4.0/4.0)
 - Burton G. Malkiel *64 Senior Thesis Prize in Finance for the most outstanding thesis in the field of finance
 - Junior Prize in Economics for the top three juniors in the economics department: Third Prize (2016 winner)
 - Phi Beta Kappa academic honor society for the top 2% of juniors (early induction, 2016)
 - Shapiro Prize for Academic Excellence for the top 3.5% of freshmen and sophomores (2014 and 2015 winner)
- *Selected coursework:*
 - Economics: Econometrics, Game Theory, Macroeconomics, Microeconomics (graduate-level)
 - Finance: Corporate Finance, Financial Investments, Financial Mathematics
 - Mathematics: Big Data, Optimization, Statistics, Linear Algebra, Multivariable Calculus, Differential Equations, Mathematical Analysis, Real Analysis, Probability Theory (graduate-level)
 - Computer Science: Algorithms and Data Structures, Programming Systems
- *Leadership:* Math Club (president, treasurer, PUMaC volunteer coordinator), Poker Club (treasurer)

SKILLS

- Proficiency in Microsoft Word, Excel, Powerpoint and Google Apps equivalents
- Proficiency in Bloomberg, C, Java, MATLAB, Python, R, Stata, VBA; LaTeX, HTML, CSS
- Proficiency in Chinese, Spanish