

Joseph Leung

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EDUCATION

Bachelor of Science, Applied and Computational Mathematics

April 2020

Bachelor of Science, Economics

Minor, Business Management

Brigham Young University

Provo, UT

- GPA 3.96, ACT 33 (99th Percentile)
- Awarded Academic Full-Year Scholarship, Dean's List 2014, 2017, 2018
- Relevant Coursework: Real/Complex Analysis, Differential Equations, Numerical Linear Algebra, Probability Theory, Convex Optimization, Algorithmic design, Graph Theory, Harmonic Analysis, Multivariable/Stochastic/Spectral Calculus, Advanced Econometrics, Price Theory
- Skills: Python, R, C++, STATA, SAS, SQL, HTML, VBA, Portuguese (fluent)

EXPERIENCE

Summer Analyst

June 2019 – August 2019

Federal Reserve Bank of New York – Financial Intermediation

New York City, NY

- Collaborating with economic researchers and performing econometric analyses on the Policy Implications of Opportunity Zones as established in Congress Bill 115, also known as the Tax Cut and Jobs Act of 2017
- Merging, cleaning, and analyzing sensitive data unique to the Bank to further improve and develop economic models and policy

Research Assistant

May 2018 – Present

Brigham Young University – Finance Department

Provo, UT

- Developed a web scraper to collect 10000+ records of data from the website LexisNexis
- Constructed a python script to scrape and clean from 300000+ pdf files for econometric analysis
- Explored the effects of changes in Federal Minimum Wage laws in relation to state Wage Garnishment laws to explore the behavior of households' response to debt, analyzing 300000+ records

Research Assistant

November 2017 – Present

Brigham Young University – Mathematics Department

Provo, UT

- Modeling community prediction in networks through Machine Learning and community detection algorithms, with up to 90% accuracy
- Collaborated with the Defense Threat Reduction Agency (DTRA) to apply link prediction techniques to questions regarding national security
- Presented findings to the Student Research Conference of 2018

Co-President

September 2018 – Present

Brigham Young University – Mathematical Finance Club

Provo, UT

- Created an Alumni outreach program to increase opportunities for student interested in Financial industries
- Organized weekly seminars on topics such as the Black-Scholes model and Sharpe-Lintner CAPM

SERVICE/LEADERSHIP

Voluntary Representative & Executive Secretary

Oct 2014 – Oct 2016

The Church of Jesus Christ of Latter-Day Saints

Lisbon, Portugal

- Statistically advised our Mission President using historical performance data to boost measurable results, tripling the organization's metrics over the next two years

INTERESTS

- Finance: Bankruptcy, Financial Networks, Asset Pricing, Algorithmic Trading
- General: Violin (15+ years), Chess (10+ years), Network Theory