



Dongxu Li



Education

2016-08 -
2017-12

University of Michigan, Ann Arbor, M.S. Mathematical Probability and Statistics

- GPA: 3.92/4.00, Concentration: Quantitative Finance and Risk Management
- Core Courses: Essentials of Stochastic Processes, Statistical Analysis of Financial Data, Intermediate level C++, Intermediate Level Python, Fixed Income and Derivative Market
- Active Learner on Online Open Courses, Member of Michigan Data Science Team

2012-09 -
2016-06

Dalian University of Technology, B.S. Information And Computational Science

- GPA: 3.88/4.00, Concentration: Applied Mathematics and Computational Methods
- Core Courses: Multivariable Calculus, Advanced Algebra, Real and Complex Variable Function, Numerical Analysis
- Mathematical Contest in Modeling, 3rd prize, 2014. Interdisciplinary Contest in Modeling, 3rd prize, 2015
- Member of Young Volunteers Association, Chair of Chess Club



Experience

2017-11 -
present

Quantitative Reasearch

Innovating Capital, New York

- Work on AWS cloud computing platforms, interact with the cloud database.
- Extract securities pricing data by interacting with google finance API, process data to construct training, developing, and testing dataset for machine learning algorithm.
- Explore information which drives the Crypto Currency Price in ETF and Currency and Energy Market using artificial neural network.
- Develop strategies on trading Crypto Currency portfolio, and conduct backtesting, and draft reports.

2017-09 -
2017-10

Stock Information Visualization

University of Michigan, School of Information

- Use Beautiful Soup and Google API to get S&P500 stocks historical price data.
- Construct database using python to interact with PostgreSQL.
- Run a stock information website app which provides users with candlestick visualization for their favorite stock.

2017-01 -
2017-04

Financial Engineering Project

University of Michigan, Industrial & Operations Engineering

- Fit Martingale Model for short rate using Treasury Strips Data.
- Under floating short rate setting, price European option by using General Black-Scholes-Merton theory.
- Price the barrier option with Monte Carlo simulation on a Brownian Motion setting.
- Employ Markowitz theory to generate and constantly update market portfolio of S&P, then calculate the accumulative P&L.

2013-06 -
2016-04

Research Assistant

Computer Vision Lab at DLUT

- **Project: Relative Attribute**
- Rank images in the LFW (Labeled Faces in the Wild) data set according to the strength of certain attributes, such as grayscale of people's hair and visibility of teeth.
- Improved the efficiency of learning RankSVM function using optimising toolbox.
- **Project: Evolutionary Game in Space**
- Explore evolutionary games and population dynamics in a small-world network by conducting Monte Carlo simulation. Simulate Ebola transmission in Africa and developed optimal medical manufacturing and delivery strategy to control the spread of the disease.



Summary

Dongxu is a highly productive and self motivated learner.
He is a team player and great listener.
He has a passion for technology and mathematics.



Personal Info

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Portfolio Website

<https://leodongxu.wixsite.com/quant>



Skills

Fundamental Math (Calculus, Linear Algebra, Probability)



Financial Mathematics



Anaconda Data Science Platform: Python (numpy, pandas, scipy, scikit-learn, matplotlib)



C++



Matlab



R



Basic Linux Command Line



Bloomberg and Factset Terminal



Public Speaking



Sports (basketball, tennis, ping pong, swimming, hiking)

