LIANG ZHAO

2030 Hudson St. APT 937, Fort Lee, NJ 07024 • (217) 418-0978 • liang.zhao@columbia.edu

EDUCATION

Columbia University New York, NY

Master of Science in Operations Research

Dec 2017

Concentrations: Finance, Trading, Programming

University of Illinois at Urbana-Champaign

Urbana, IL

Bachelor of Science in Statistics and Economics

GPA: 3.73/4.00

Dec 2015

Dean's List (4 Academic Semesters)

SiChuan UniversityBachelor of Science in Finance

GPA: 3.82/4.00

Chengdu, China May 2015

Oxford University Program (Selected 20 exchange students from more than 400 applicants in SCU)

WORK EXPERIENCE

INSANITY TRADING Trading Analyst Intern San Francisco, CA

Jun 2017 - Dec 2017

• Platform Development: Constructed the back-testing platform in Python (Pandas, Numpy, Numba) for commodity futures contracts based on the principle of object-oriented programming; Realized rebuilding dominant future data, accurate backtesting, metrics computation, cross validation and result visualization in this system

- Strategy Development: Created a double-sort strategy which combined term-structure strategy and high-low breakout strategy; Back-tested with 2290 contracts, 10 year's daily data and achieved 1.78 Sharpe Ratio in Chinese commodity markets
- Machine Learning: Built a selection model to choose the optimal features which will produce the high profit and lose (pnl) and low max draw-down in Chinese commodity market using Machine/Deep Learning knowledges

DELOITTE CHINA Shanghai, China

Quantitative Analyst Intern

Feb 2016 - May 2016

- Quantitative Modeling: Constructed logistic and linear models in R with client's data and illustrate the results to the client to prove the business plan is reasonable and profitable
- Credit Risk: Conducted interviews of the supervisors of 5 community banks to determine the general range of unsecured loan
- Data Cleaning: Cleaned more than 200000 datas of 15 commercial banks in China, calculated 4 years profitability index, finished data mining and data visualization in excel (VBA, Lookup, Pivot table) and powerpoint

KPMG CHINA
Beijing, China
Financial Analyst Intern
Jul 2015 - Aug 2015

- Financial Analyst Intern

 Jul 2015 Aug 2015

 Valuation: Interpreted enterprise value range by finding comparing-company and comparing-transaction from Capital IQ to increase the accuracy
- **Database Development:** Created the database containing comprehensive information of 320 private equity (PE) and venture capital (VC) companies in excel (VBA, Lookup, Pivot table)
- Data Collection: Tracked recent 5 years U.S government bonds, ten years exchange rate of dollar to yuan in Bloomberg to help senior manager evaluate target enterprise and save the client's cost of acquisition

GUOTAI JUNAN SECURITIES Co. Ltd.

of evaluation in 4 merger and acquisition projects

Zhengzhou, China

Jun 2014 - Aug 2014

Investment Banking Intern

- Market Research: Generated information packages and illustrated the over-the-counter investment banking services to the potential clients
- Detail-oriented: Expedited financial due diligence process, arranged three years balance sheet, profit statement and cash flow statement
- Teamwork & Communication: Planned and attended the directors meetings of clients, assisted making preliminary plan and time schedule of Enterprise's listing

PROJECT EXPERIENCE

Natural language processing (NLP) for stock price analysis

New York, NY

Project Leader

Mar 2017 - May 2017

- Sentiment Analysis: Researched text data of target company from different resources(twitter, seeking alpha); implemented natural language processing technics (SVM linear) to explain stock price behavior.
- Data Visualization: Developed web applications via Flask, MongoDB, Python, HTML, CSS, bootstrap to present the project result.

Research and analysis of the American QE3 policy' effect on China's economy

Chengdu, China

Project Leader

Aug 2012 - Sep 2013

- Quantitative Modeling: Developed general linear models in SAS with 2 years' economic data, including GDP, exchange rate and price index of Im/Ex Goods
- Leadership & Teamwork: Organized 10 undergraduates to finish the government project and wrote a 10000 word assessment report
- Writing & Detail-oriented: Composed a 5000 words literature review and improve the efficiency and accuracy of model building

SKILLS