

QUAN XUE

Investment Engineer at Bridgewater Associates

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EDUCATION

Georgia Institute of Technology M.S. Analytics

📅 08/2018 - 12/2019

- **GPA 3.8/4.0**
- *Coursework:* Algorithms, Data Mining, Deep Learning, Machine Learning, Optimization, Time-series Analysis

London School of Economics BSc. Economics

📅 09/2015 - 06/2018

- **First class honors** with top 5% average score
- Won all expenses paid scholarship to Washington D.C. to present final year economics thesis
- *Coursework:* Advanced Econometrics, Behavioral Economics, Finance, Macro and Micro Economics

TECHNICAL SKILLS

Computing

JavaScript

Python

R

SQL

Scala

STATA

Tableau

Xpress

Languages

English

Mandarin Chinese

Modelling Techniques

Bayesian Network

CART

Clustering

Neural net

PCA

Regression

Time-series analysis

AWARDS

🏆 Master Data Science Competition

- Identified key growth areas and drafted business plan for major auto parts company using clustering techniques
- **Runner-up** out of 30 teams winning \$5000 cash prize (2019)

🏆 Collegiate Cup Hackathon

- Conceptualized state-wide strategy to improve technology access for under-served communities
- **Georgia State Champion** in case category winning \$750 cash prize (2019)

INTERESTS

- Georgia Tech and LSE mentor advising juniors on career and course choices
- Team basketball, badminton, playing the guitar and piano, travelling and coffee!

EXPERIENCE

Bridgewater Associates Investment Engineer

📅 Feb 2020 - Present

📍 Westport, CT

- Conceptualized and implemented tool to detect data dependencies within investment systems, achieving **>50%** time saving
- Designed data reliability and timeliness tests to ensure investment signal accuracy

Chick-fil-A Graduate Innovation Intern

📅 Fall 2019

📍 Atlanta, GA

- Spearheaded long-term development of an automated drive-thru voice ordering system applying natural language processing and AWS cloud technologies
- Achieved **>30%** time saving and **>40%** improvement in customer engagement

Pacific Investment Management Company (PIMCO) Client Data Science Summer Analyst

📅 Summer 2019

📍 New York City, NY

- Modeled effects of macroeconomic factors on investment decisions to guide product strategy and revenue forecasting using time-series analysis (ARIMA, GARCH, VAR)
- Presented model viability to the CFO office and initiated long-term development of project

Singapore Government Technology Agency Data Science Intern

📅 Summer 2018

📍 Singapore

- Initiated and implemented Optical Character Recognition project for government media regulator identifying ISBNs from **10,000+** scanned documents using Tensorflow and Google Cloud
- Accomplished **>20x time saving** (total of **4,000+** hours)

Singapore Infocomm Media Development Authority Policy Summer Analyst

📅 Summer 2017

📍 Singapore

- Evaluated annual spectrum auction design and data privacy regulation for **\$100B+** industry
- Drafted white paper and presented recommendations for business-friendly tax policy and infrastructure development to senior office-holders

KPMG Advisory Management Consulting Summer Analyst

📅 Summer 2017

📍 London, UK

- Spearheaded the revitalization of major airport group's customer experience for **75MM+** annual passengers
- Analyzed customer feedback data, researched on retail industry trends and presented findings to senior leadership