

LUYU (CASSIE) JIN

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EDUCATION

New York University, New York, NY Expected Graduation 05/2018
M.S. in Data Science, GPA 3.57/4.00

- Selected Courses: Intro to Data Science, Statistical and Mathematical Methods for Data Science, Programming for Data Science, Machine Learning and Computational Statistics, Big Data, Advanced Python Programming

University of Rochester, Rochester, NY Graduation 05/2016

B.A. in Financial Economics and Statistics, GPA 3.85/4.00

B.S. in Applied Mathematics, GPA 3.98/4.00

- Selected Courses: Applied Time Series Econometrics, Financial Mathematics, Financial Management, Investments, Linear Algebra, Applied Statistics, Intermediate Microeconomics & Macroeconomics, Sampling Techniques, Stochastic Processes
- Honors: Dean's List 8/8 Eligible Semesters, Golden Key International Honor Society (top 15%)
- Organizations: Undergraduate Finance and Economic Council, Society of Undergraduate Mathematics Students

PROFESSIONAL EXPERIENCE

NYU Langone Medical Center, New York, NY 03/2017 – present

Intern for Machine Learning

- Explored ways of optimizing machine learning models and attempted different regularization methods.
- Visualized convolutional neural network using MR images to examine the portion of a medical figure that has the highest probability of indicating a particular disease.
- Worked on tuning model hyper-parameter using various valuation metrics.

Siemens, Guangzhou, China 05/2014 – 07/2014

Supply Chain Management Intern

- Worked with Excel (Pivot Table and VLOOKUP) to maintain, verify, and analyze data of purchase orders.

Citibank, Guangzhou, China 07/2013 – 08/2013

Summer Program Trainee

- Researched and analyzed data about financial derivatives to gain critical working knowledge in finance and investment.
- Computed tables and charts using Excel to visualize foreign currency trends and presented corresponding findings.
- Marketed and promoted insurance products to prospective and current customers.

ABB Group, Shanghai, China 05/2013 – 06/2013

Project Assistance Intern

- Attended monthly meetings to review ongoing projects based on cost-benefit analysis.
- Teamed with project controller to verify inventory data accuracy through online platforms and department contacts.
- Composed research report on the International Chamber of Commerce Terms to improve work efficiency of colleagues.

RESEARCH EXPERIENCE

Recommendation System for Yelp: *New York University* 09/2016 – 12/2016

- Cleaned the raw dataset and extracted useful features.
- Trained machine learning models including k-NN, Naïve Bayes, Collaborative Filtering, and Matrix Factorization with Python.
- Evaluated model performance and contributed to the write-up of final report.

The Determinants of Forced Expiratory Volume: *University of Rochester* 03/2015 – 05/2015

- Conducted statistical analysis (ANOVA, t-test, F-test, multiple regression analysis) on the effects of age, height, and gender on forced expiratory volume.
- Evaluated model adequacy, normality, homoscedasticity, outliers, influential observations, and autocorrelation.
- Applied Box-Cox procedure to transform the original model and to improve model performance.

Study of the Relationship between Illegal Guns and Violent Crimes: *University of Rochester* 09/2014 – 12/2014

- Used STATA to conduct econometric analysis to explore the relationship between violent crimes and illegal guns.
- Applied ordinary least squares model and fixed effects model to compare outcomes under different assumptions.

SKILLS

Programming: Python (scikit-learn, pandas, NumPy, matplotlib, TensorFlow), Bash, R, Java, JavaScript

Database: MySQL

Hadoop Ecosystem: MapReduce, PySpark

Statistical Software: SAS, STATA, Minitab, JMP, Microsoft Excel

Technical: machine learning, big data analytics, statistical analysis, time series forecasting, quantitative finance