Jiaxu(Jerry) He

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EDUCATION

Georgetown University, The Graduate School of Arts & Sciences, Washington, DC   **May 2019**
Master of Science in Analytics, **GPA:3.534**
Selected Coursework: Prob Modeling/Stat Computing, Optimization, Massive Data Fundamentals, Statistical Learning for Analytics, Structs & Algs for Analytics, Analytical Data Visualization, NLP for Data Analytics, Neural Nets and Deep Learning

The University of Iowa, College of Liberal Arts and Science, Iowa City, IA   **May 2017**
Bachelor of Science in Mathematics**, Major GPA: 3.73**
Bachelor of Science in Statistics, **Major GPA: 3.3**

SKILLS

Technical: Python, R, Tableau, NLP, SQL, HTML, AWS, Apache Spark

RELEVANT WORK & PROJECTS

Data Visualizations for Popular Movies, *Georgetown University*, Washington, DC   **Winter 2018**
- Built more than 20 visualizations using Tableau, Leaflet, Plotly, Ggplot2, 3D, NetworkD3, WordCloud, and Shiny on discovering the relationships between the features of popular movies in recent years

Sentiment Analysis on Popular Lyrics and Artists, *Georgetown University*, Washington, DC   **Fall 2018**
- Collected featured data on Billboard in the last few decades using API
- Used Natural Language Processing, Topic Modeling, Logistic Regression, Machine Learning Methods, and Hypothesis Tests to extract different features, discover the trend of topics, cluster the data based on several features, do some predictions and some relationships digging
- Visualized the features and results using Ggplot, NetworkD3, Leaflet, Tableau, Seaborn, Bokeh, Matplotlib, and 3D

Text Classification on Yelp and Amazon Reviews, *Georgetown University*, Washington, DC   **Fall 2018**
- Used word2vec and bag of words to produce word embedding for all the reviews
- Used Logistic Regression, Naïve Bayes, Convolutional Neural Networks and Recurrent Neural Networks to classify the reviews by two different categories(Useful/Not Useful and Positive/Negative)

The Effects of News Twitter on Stock Market Return, *Georgetown University*, Washington, DC   **Fall 2017**
- Used APIs on Twitter and Yahoo to get ten years of data about News Twitter, Gold Price, Nasdaq, and S&P 500
- Used Sentiment Classification and Topic Modeling on News Twitter and used Association Rule Mining, SVM, KNN, Naïve Bayes, Random Forest, Decision Tree and Hypothesis Tests on discovering the effects of News Twitter Sentiment Scores on the stock market prices

RELEVANT EXPERIENCE

Teaching Assistant Volunteer, *Beijing Academy of Learning Science*, Beijing, China   **Summer 2017**
- Adopted data source from the reports came from nearly a hundred schools to analyze the results after applying "Brain-Friendly Learning" in the schools teaching
- Visited several schools with secretary-general in Delhi city to give demonstration classes
- Presented "Brain-Friendly Learning" using the data and results from the analysis, and attended the discussion of building testing program about "Brain-Friendly Learning" with several school directors

Consulting Analyst Intern, *Chuchuguo Education Consulting Co., Ltd.,* Beijing, China   **Summer 2016**
- Assisted in data retrieval from the Ministry of Education to conduct a statistical analysis on the status quo of the student population who had overseas education
- Analyzed the most concerned factors for Chinese students to choose schools, involving geographical location, job opportunities, program cost, international student portion, and others
- Generated data visualization charts of the statistical results

ACTIVITIES/INTERESTS

Volunteer e-sports online commentators for the event of DOTA 2000 Cup; Volunteer at Iowa City Jazz Festival; Big e-sports fan; Short gaming videos producer; Competitive e-sports online commentators; Private Tutor