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**, Data Science Concentration, 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, Excel, CSS, W3.CSS

RELEVANT EXPERIENCE

Institute of International Education, *Researcher*, Washington, DC   **Oct 2019 - Present**
- Tracked, acquired, and managed data of the annual survey results from approximately 3000 accredited U.S. institutions
- Used Excel and Python to collect, organize, and analyze the 20 years of Open Doors data from different resources
- Created Tableau portfolio dashboards and Adobe Illustrator visualizations for Open Doors and Project Atlas
- Performed data analysis using Python and Excel on the data from 2019 Open Doors annual survey to identify insights and mobility trend in the data of international students in U.S. and U.S students studying abroad for academic credit
- Designed 2019 Project Atlas infographics report highlighting the insights of global student mobility
- Coordinated with more than 30 Project Atlas global partners to exchange data, insights, and analysis processes, consistently ensure the accuracy of the information and the potential issues are avoided

Independent Consultant, *Consultant (For Research Purpose Only)*   **Jun 2016 - Present**
- Collaborated with Staff Hospital of Hubei Provincial Bureau of Geology and Mineral Resources to analyze, visualize, and update the information of the coronavirus outbreak in Wuhan City using R and Tableau
- Managed, monitored, and evaluated the processes performance of the stock of raw materials, factory production, production promotion, and clients targeting for Future of X on Taobao.com
- Analyzed the most concerned factors using R and Excel with an educational consultant in Chuchuguo Education Consulting Co., Ltd. for Chinese students to choose schools, involving geographical location, job opportunities, program cost, international student portion, U.S. News & World Report's Rankings, and others
- Helped promote "Brain-Friendly Learning" in Delhi City with Beijing Academy of Learning Science by giving teaching demonstrations and presenting "Brian-Friendly Learning" using a visual display and statistical analysis results

ACADEMIC PROJECTS

Text Classification on Online Customer Reviews, *Georgetown University*, Washington, DC   **Fall 2018**
- Generated word embedding for all customer reviews using word2vec and bag of words
- Performed text classification using naïve Bayes, logistic regression, convolutional neural network, and recurrent neural network for attitudes (positive/negative) and helpfulness (helpful or not)

Sentiment Analysis on Popular Lyrics and Artists, *Georgetown University*, Washington, DC   **Fall 2018**
- Led the project design, timeline scheduling, data collection, and coordination between team members
- Conducted text mining analysis using Natural Language Processing to extract different features from lyrics and tweets
- Performed statistical hypothesis tests and linear modeling using regression
- Visualized the features and results using Ggplot, NetworkD3, Leaflet, Tableau, Seaborn, Bokeh, Matplotlib, and 3D

The Effects of News Twitter on Stock Market Return, *Georgetown University*, Washington, DC   **Fall 2017**
- Analyzed and effectively strategized regarding project goals, deadlines, development, and evaluation
- Used APIs to extract ten years of data about News, Gold Price, Nasdaq, and S&P 500 from Twitter and Yahoo
- Performed sentiment classification, topic modeling, association rule mining to extract featured insights
- Used regression and machine learning models to analyze the relationship between headline news and stock price

INTERESTS/ACTIVITIES

Basketball; Soccer; Tennis; Hiking; Skiing; Swimming; Musicals; Volunteer e-sports commentators for the event of DOTA 2000 Cup; Volunteer at Iowa City Jazz Festival; Volunteer organizing member for the LOL Competition event at University of Iowa CSSA; Short game videos producer; Math, English, Physics, Statistics private tutor