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, Excel, AWS, Apache Spark, CSS, W3.CSS, Adobe Illustrator & InDesign

RELEVANT EXPERIENCE

Institute of International Education, *Researcher*, Washington, DC **Oct 2019 - Present**

- **2019 Open Doors**: https://www.iie.org/Research-and-Insights/Open-Doors
  - Adopted data source from the annual survey results came from approximately 3000 accredited U.S. institutions
  - Performed data analysis to identify insights and mobility trend in the data of international students in U.S. and U.S students studying abroad for academic credit
  - Created Tableau dashboards and Adobe Illustrator visualizations for all countries and all states in the U.S.
- **Project Atlas**: https://www.iie.org/Research-and-Insights/Project-Atlas
  - Worked with over 30 international partners to get comparable student mobility data through surveys
  - Constructed custom research on student and faculty mobility and internationalization of higher education
  - Used Tableau to create portfolio dashboard for each partner country and created 2019 Project Atlas Infographics report using Adobe Illustrator and InDesign

Beijing Academy of Learning Science, *Teaching Assistant Volunteer*, 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

Chuchuguo Education Consulting Co., Ltd., *Consulting Analyst Intern*, 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

ACADEMIC PROJECTS

Data Visualizations for Popular Movies, *Georgetown University*, Washington, DC **Winter 2018**

- Performed data preprocessing by data cleaning, data editing, and data wrangling
- Built more than 20 visualizations using Tableau, Leaflet, Plotly, Ggplot2, 3D, NetworkD3, WordCloud, and Shiny on discovering the insights and 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 and Twitter in the last few decades using API
- 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**

- Used APIs on Twitter and Yahoo to get ten years of data about News Twitter, Gold Price, Nasdaq, and S&P 500
- 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 tweets and stock price