# Jieyi Sun
## Data Analyst

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## WORK EXPERIENCE

### China Telecom - Data Analyst Intern
July 2021 - Aug 2021                                                                                     Wuhan, China
- Gather and clean data sample of 4G and 5G network DPI indicators with Python;
- Defined the threshold of normal range for each indicator by using interquartile range and Chi-squared distribution to measure statistical dispersion of each indicator;
- Reported the distribution of problematic stations to product supplier Huawei by creating storytelling through data visualization.

### Deloitte - Consultant Intern
March 2020 - June 2020                                                                                  Remote, China
- Finished a report including situation analysis by research, investigation, questionnaire, etc., market budget, analysis of competitors and consumers of different ends for food seasoning industry and consumers;
- Provided solutions from the aspects of the supply chain, products, marketing, and big data technology for Kraft Heinz.

## PROJECTS

### COVID-19 Impact on Tourism Industry                                                    Jan 2022 - May 2022
- Created storytelling through data visualization using Tableau and Plotly;
- Discovered the behavior of stock price data of three travel agencies over time by doing the decomposing to identify the time series components and using the Augmented Dickey-Fuller Test to check the stationary after the auto coorelation;
- Forecasting the volatility of future returns by building ARMA/ARIMA/SARIMA models, financial time series models (ARCH/GARCH) and nueral network models (RNN/GRU/LSTM).

### Bike-Sharing System in Chicago                                                          Aug 2021 - Dec 2021
- Discovered the distribution of station and usage duration of sharing bike system in Chicago with the probabilities obtained from large samples.
- Figured out the relationship between rideable type, membership, and usage time by building statistical models of Chi-Square test, T-test, bootstrap, linear regression and Naive Bayes.

## EDUCATION

### Georgetown University - Master of Science, Data Science and Analytics
Aug 2021 - current,  GPA: 4.0                                                                       Washington, DC

### University of Nottingham - Bachelor of Science, Chemistry
2017 - 2021,  GPA: 3.7                                                                              United Kingdom
**Awards**
- First Class with Honor

### University of Nottingham - Summer school, Programming and Artificial Intelligence

## SKILLS

- Programming (R, Python, HTML/CSS, SQL)
- A/B Testing & Experimentation
- Visualization (ggplot, Tableau, Plotly, Seaborn, Altair, Matplotlib, D3.js)
- Machine Learning and Deep Learning (Clustering, Association Rule Mining, Decision Trees, Random Forest, Naive Bayes, SVM, Linear Regression, Logistics Regression, Tensorflow, OpenCV, RNN, GRU, LSTM)