

# Mengxuan LI

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## EDUCATION

**Master Program in University of Southern California (USC), Los Angeles, CA.** 08/2021 – 05/2023

Viterbi School of Engineering, Industrial and Systems Engineering

- **Major** in Analytics (DA) with **GPA** (4.0/4.0)
- **Core courses:** Machine learning at Data Science, Data Mining, Analysis of Algorithm, Data Management, etc.

**Undergraduate Program in Wuhan University of Technology (WUT), Wuhan, China.** 09/2016 – 06/2020

School of Science (SoC)

- **Major** in Statistics with **GPA** (87.64/100)
- **Bachelor of Science** awarded in June 2020 with honor of Outstanding Graduate
- **Core courses:** Higher Algebra, Mathematical Analysis, Operation Research, Probability, Econometrics, etc.

## INTERNSHIPS

**Xinxing Ductile Iron Pipes Co., LTD, Beijing, China.** 07/2019 – 08/2019

**Data Analyst Intern** at Technical Management Division

- Processed real data on 2018 annual sales of all pipes and fittings
- Produced PivotTables with EXCEL to compare order and shipping differences for four mathematical models based on genetic algorithm (GA)
- Conducted R-based Hierarchical clustering and k-means clustering to analyze production results of different centrifuges (for the production of steel) at different times
- Mapped the analysis results as digital basis for company's decision making

## ACCOMPLISHMENTS

**University of Southern California (USC), Los Angeles, CA** 12/2021 – 12/2021

**Establishment of Data Model**

- Built International Foods Database using Mysql
- Established Data warehouses of suppliers and sales result

**Wuhan University of Technology, Wuhan, Hubei, China** 03/2020 – 06/2020

**Graduation Thesis** on a statistical analysis of the effect of *Shenzhen-Hong Kong Stock Connect*

- Determined analysis index of *Shenzhen Composite Index* and built ARIMA model with R
- Collected data on stock price-earnings ratio, price-earnings ratio, price-to-book ratio, total market value, and trading volume of 1926 stocks from Wind and divided into eight industries for separate discussions
- Utilized MATLAB in data iteration and tested data processing results with DID model
- Proved the mechanism's positive role in Shenzhen A-share stock market and great benefits on four industries of manufacturing, retail, hydropower, and IT

**Text Analytics Project for Course *Multivariate Statistics*, Wuhan, China.** 05/2019 – 06/2019

Discrimination of author in *Henry VI Part II*

- Established word stop list based on original text word frequency and common stop words
- Trained text classifier with constructed features employing generalized Markov distance, Bayesian discrimination, and SVM
- Obtained supports for better chance Shakespeare being the author of *Henry VI Part II*

**MCM/ICM Contest 2019, Wuhan, Hubei, China.** 01/2019 – 01/2019

Problem B (Send in the Drones: Developing an Aerial Disaster Relief Response System)

- Completed three months training on mathematical modeling
- Assumed data processing, model building assisting and final paper compiling
- Awarded the Meritorious Winner in 04/2019

**The 4<sup>th</sup> Chinese Youth Volunteer Service Project Competition, Deyang, Sichuan, China.** 10/2018 – 12/2018

Seeking the most effective way to improve the level of anti-drug knowledge among college students

- Designed questionnaire and pre-processed acquired data
- Evaluated statistical results of college students' anti-drug knowledge level with Principle Component Analysis
- Achieved the equation for anti-drug education contents compromising types and hazards of drugs, tips for refusing drugs, consideration of high-risk behaviors
- Recognized as a Gold Medal project with the ratio of 1:8.65 nationally

## SKILLS

**Programming:** Python(Pandas, Numpy, Sklearn), R

**Data Analytics:** SPSS, Microsoft Office Excel, MATLAB, SQL(Mysql), Tableau

**Machine Learning:** Supervised Learning (Linear Logistic Regression, KNN, Classification, Decision Tree, Random Forest, Deep Learning), Unsupervised learning(PCA, K-means)