

# Nick Kang

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## EDUCATION

### University of Wisconsin-Madison

*Master of Science in Economics*

Relevant Coursework: Data Analytics, Data Programming, Machine Learning, Econometrics, Economic Forecasting

**Madison, WI**

*Expected Graduation: Spring 2022*

### University of Wisconsin-Madison

*Bachelor of Science in Economics with a Mathematical Emphasis*

Relevant Coursework: GIS Analysis & Big Data, Business Analytics, Behavioral Economics

**Madison, WI**

*Spring 2020*

## RESEARCH & PROJECT EXPERIENCE

### University of Wisconsin-Madison

*COVID-19 impact on U.S restaurant industry recovery in 2021*

**Madison, WI**

*Oct – Dec 2021*

- Utilized pandas to clean, manipulate, combine and analyze 6 various datasets to assess U.S restaurant industry recovery with the impact of COVID-19
- Used matplotlib to identify crucial trends of restaurant industry recovery in 2021 with multiple visuals
- Observed relationship between mask order, COVID-19, vaccination and restaurant industry recovery

*U.S Airline merger prediction model*

*Oct – Dec 2021*

- Analyzed the effects of the merger between American Airlines and US Airways and predicted the price effect of the theoretical merger using machine learning practices in R
- Built random forest model and lasso model to compare with the least mean squared error that performed the best for predicting the price
- Collaborated with a team of five members to optimize efforts and collectively wrote a final report

*Store sales performance analysis*

*Oct – Dec 2020*

- Inspected and cleaned data using Tableau Prep and reorganized the dataset into 17 different sales related fields to analyze sales performance with over 40000 data entries
- Constructed multiple visualizations in Tableau to illustrate trends and patterns of various economic values with store sales performance

*“Are Ridesharing Services Replacing or Complementing Public Transportation in Chicago”*

*Oct – Dec 2019*

- Manipulated and analyzed a ridesharing dataset with over 20 million data entries using Python & QGIS
- Effectively worked in a team of four to allocate research and coding tasks
- Presented a fitted model to predict the complementary effect between public and ridesharing service in front of a class over 100 people

*“The study of factors for College Completion Rate”* | [Python Code on github](#)

*Nov – Dec 2018*

- Inspected panel data, examined and identified the correlation between different variables using Python
- Conducted a fitted ordinary least squares model and compared data results for variable significance

## PROFESSIONAL EXPERIENCE

### Contek Industrial Diamond Co.

*Intern, Quality Testing Department*

**Hainan, China**

*June – Aug 2018*

- Recorded and organized over 20 reports and maintained testing report database daily
- Identified problems based on the testing report and decreased the rate of product failure

### Contek Industrial Diamond Co.

*Administrative Team Intern*

**Hainan, China**

*June – July 2015*

- Collaborated with a team of 2 people to prepare office supplies and explored the best option within budget
- Designed and improved the lab layout for efficiency by ordering lab equipment of over \$3000

## LEADERSHIP & COMMUNITY INVOLVEMENT

### Intramural Basketball Team

*Team Captain*

**Madison, WI**

*Sept 2015– Present*

- Successfully recruited over 20 new players to maintain a strong level of competitiveness for the team

### Chinese Students and Scholars Association (CSSA)

*Event Coordinator*

**Madison, WI**

*Oct 2014 – Oct 2015*

- Effectively organized two outings for over 50 students with detailed activities and collaborated across a team of 20 people to develop various event plans every week

## SKILLS

- Software: Python(Pandas, Matplotlib, Seaborn), SQL(MySQL), Tableau Desktop, Tableau Prep, R, Excel, Stata, MATLAB
- Languages: Chinese(native), English(fluent)