

# MINGCHENG KANG

## Statistics major Student

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## EDUCATION

### Statistics

#### University of California, Berkeley

📅 2017 – Present    📍 Berkeley, California

### Statistics and Mathematics

#### Diablo Valley College

📅 2015-2017    📍 Pleasant Hill, California

## INTERNSHIP EXPERIENCE

### Hongjiang Industrial Co., Ltd.2018

- 🏆 Top 1000 Globally in Crackables puzzle-solving contest held by OnePlus and Google on 18 September 2018 and successfully completed the second board puzzle held on 27 September 2018.

### Saint-Gobain Scholarship

- 🏆 Selected for the second round of the scholarship program with an idea and blueprint of project INFA, Indoor Navigation For All mobile application to help disabled people navigate indoors on Mar 2018.

### Astitva

- 🏆 Founder of Zephyr, under Geo charity club, Jodhpur with a life-time affiliation with Vivanta Hari Mahal, Jodhpur for organizing charity events under its premises. Organizer, Designer and Lead manager of ASTITVA, charity fund raising event held at Vivanta Hari Mahal on 13 June 2016, raising over 2 lacks in charity money.

### Iken Scientifica 2014

- 🏆 Selected for the Round 3 (Nationals) after clearing Problem Solving and Contraption making stages, held by Mexus Education Foundation.  
Round 2 Contraption - <https://youtu.be/65shW6NNajw>

## SKILLS

R



Python



MySQL



## RESEARCH WORK

### Credit Card Fraud Detection (10/2017 - 02/2018)

- Data collection: This machine learning project explores the Pavsims synthetic dataset of mobile money transactions
- Data cleaning: Removed unnecessary variables and combined multiple variables while only keeping the transfer type of transactions
- Data analysis: Used different machine learning algorithms (random forest, logistic regression, and support vector machine) to build the model and select the proper way to improve the accuracy of the fraud detection. We improved the accuracy from 97

### Effect of Nicotine on Human Body (09/2015 - 12/2015)

- Data collection: Used Python to collect nicotine data from a crime website in the United States.
- Data cleaning: Cleaned NHANES data, removed invalid data, and collated raw data with multiple factors.
- Data analysis and visualization: Implemented R language algorithm packages such as ggplot2 and reshape2 are used to analyze data and make visualized data graphs.

### Regression Analysis of NBA (09/2015 - 12/2015)

- Data collection: Collected the NBA results and player data of the past whole season
- Data analysis: Used R to establish regression analysis of data, determined the determinant variables of team members' physical factors on the results, and rank them in turn.