

# Katherine Jin

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## SUMMARY OF SKILLS / ABILITIES

- Analytical skills and familiarity with data analysis tools (e.g., Excel, SQL, Python).
- Experience with data visualization tools (e.g., Tableau, Power BI) and techniques.
- Programming experience modeling statistical model in R, Python, and Java.
- Good communication and presentation skills, with the ability to convey technical concepts to non-technical audiences.
- Detail-oriented and highly organized, with a focus on accuracy and quality.
- Ability to work independently and collaboratively in a fast-paced environment.
- Ability to manage multiple tasks and prioritize effectively.
- Experience with project management and business analysis.

## EDUCATION

**Bachelor of Mathematics, Statistics and Data Science,** Expected to graduate in March 2025  
University of California, Los Angeles, CA September 2023 - Present

**Bachelor of Mathematics, Statistics**  
University of California, Davis, CA September 2021- August 2023  
GPA: 3.95/4

## ACADEMIC CURRICULUM

Computer Science

- Programming in Python and Data Structures

Statistics

- Data Science Basics, Regression Analysis, Nonparametric Statistics, Analysis of Variance, Statistical Data Science, Programming in R, Data Analysis and Regression, Computational Statistics with R, Mathematical Statistics, Experiment design

Mathematics

- Calculus, Linear Algebra, Probability, Vector Analysis, Programming in Matlab

Economics

- Principle of Macroeconomics/Microeconomics

## WORK EXPERIENCE

Data Analyst Intern, Tencent Technologies Co., Ltd., Shenzhen, China July–September 2024

- Conducted in-depth analysis of match data for "Brawl Stars," focusing analyzing overall game trends over the past two years, comparing different game modes and player segments to identify key trends and changes.
- New Season Mode Evaluation: Assessed the effectiveness of new season modes, offering data-driven insights and recommendations for improvements to enhance the gaming experience.
- Industry Analysis Methodologies: Gained knowledge of industry-standard analysis methodologies and metrics, gaining valuable experience in the gaming industry's data analysis practices.
- Comprehensive Skill Development: Enhanced analytical thinking and project understanding in the context of game analysis, improving data analysis and problem-solving skills.

Data Analyst Intern, Huawei Technologies Co., Ltd., Guangzhou, China June–September 2023

- Data Processing and Querying: Learned and utilized Excel and SQL for data querying and processing, improving the efficiency and accuracy of data analysis, ensuring data integrity and reliability.
- Data Visualization and Report Presentation: Created various charts and reports using

Excel to visually present analysis results, aiding the team in better understanding the data. Developed and presented PowerPoint reports to the team and senior management, receiving positive feedback and enhancing communication and presentation skills.

### **ACADEMIC RELEVANT EXPERIENCE**

- Published a joint paper “An inferential model-based method for testing homogeneity of several variances against tree-ordered alternatives” in International Journal of Approximate Reasoning, 2023, 152( 1): 344–354.

In this paper, we propose a new inferential model-based test for the homogeneity of several variances against tree-ordered alternatives.

In this project, I did the simulation studies to demonstrate that our new solution provides a competitive alternative to existing methods while our IM test is the only one that works in scenarios where the sample sizes are unequal.

Also I used R language to present a real numerical example to illustrate the flexibility of the proposed method.

- Focused on social issues such as Public Safety and prepared a manuscript titled “**New city danger rankings based on mass shooting data**”

In this project, I independently propose a new city danger ranking method based on the  $q$ -statistic to measure spatial stratified heterogeneity. I use mass shooting data, which are more accurate than other data, such as violent crime and property crime. The new city ranking is very simple to interpret and is easy to use in practice. It may help in political policy making, such as state gun laws.

### **ADDITIONAL EXPERIENCE**

Activity Coordinator, The school Chinese Culture Club, Fremont, CA      August 2019–May 2021

- In charge of activity planning. Had planned ten more assemblies since my junior year, including celebrating the Chinese New Year in February 2020.

Designer and participant, School Multi-Culture week, Fremont, CA      April -May 2019

- Designed and participated and performed in the performance. Arranging and managing the participants while practicing.

### **ACTIVITIES & INTERESTS**

Studying Japanese and have reached N3 level      September 2022 - December 2023

- Have experience and interests on challenging myself on learning variety of things outside the comfort zone. Learn from different cultures to build a open-mind attitude.

Tutoring      September 2020 - December 2022

- Have experience on communicating and tutoring students of age from 7 to 20. Have great patient and respect when communicating. Build skills and strategies on building and leading the conversations. Better at explaining concepts more clear and straight forward.

Player of the varsity team, Fremont, CA      February 2019 - June 2020

- Persevere on practicing even though the training is harsh and the school became a lot busier than in freshmen year. Never give up until the last second. Building a better understanding of cooperating and strategies.