**Xinlin (Leo) Shi**
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## EDUCATION

**University of California, Irvine** **Irvine, California**
*Master of Science in Business Analytics* June 2025
**Relevant Coursework:** Machine Learning, Management Science, Customer and Social Analysis, Foundation of Marketing, Technology and Analysis Consulting, Supply Chain Analytics

**University of California, Riverside** **Riverside, California**
*Bachelor of Science in Statistics* June 2024
**Relevant Coursework:** General Statistical Models, Statistical Consulting, Regression Analysis, Quality Improvements

## INTERN EXPERIENCES

**Zhongtai Securities** **Shanghai, China**
*Quantitative Analyst* June 2023 - September 2023

- Examined asset portfolios with risk management and predict optimal investment timing using previous historical return and efficient frontier results; 10% increase in overall portfolio returns for next two years
- Predicted future earnings through quantitative models (VaR, stress testing, and Monte Carlo simulations) using surmised models (Arima) to identify a similar pattern with domestic mutual fund and led to a 15% improvement of accuracy
- Conducted in-depth technical analyses by reviewing historical stock charts and technical assessments on company stocks and analyzed risk graphs of key statistics, oscillators, movement indicators and Elliott waves to predict future trends and improve accuracy by 15% over a six-month period

## RELATED PROJECTS

**Recipes Researching; University of California, Irvine** March 2025

- Developed a recipe recommendation system with Natural Language Processing based on user preferences, dietary restrictions and available ingredients and increased searching efficiency by 30%
- Built a recipe classification model with K-Means clustering method and integrated TF-IDF with cosine similarity to improve ingredient-based matching by 20%
- Created interactive user interfaces with IPyWidgets to filter recipes based on nutritional constraints and text input systems to interpret dietary preferences and achieved 95% accuracy in dishes matching

**Zillow Housing Estate; University of California, Irvine** December 2024

- Utilized directed web scraping methods with BeautifulSoup and Requests to extract over 4,000 housing listings across California to gather comprehensive data on property features and pricing trends
- Applied advanced regression methods, including linear, gamma and generalized linear models to analyze how factors such as number of rooms, cities, and sizes influences housing prices and discovered an increased around 670 dollars increase per house size
- Integrated Hedonic Pricing Model with qualitative location scores sourced from Niche, evaluating ZIP codes to assess living conditions and environmental impacts, reveals 60% of houses are directly affected

**Sun Airlines Future; University of California, Irvine** September 2024

- Assigned cluster group with K-Means Clustering and segment customers into 5 distinct groups based on flight information such as seasonality, location, class and age group for targeted marketing strategies
- Created visualizations include bar charts, histograms and scatter plots to examine distribution for group across flight information, including booking channel, group size, destinations, membership and origins
- Identified traits for each cluster group and recommended any discounts and reward for each specific group, leading to a projected 30% increase in future flight bookings

**Data Science Ethics Analysis; University of California, Riverside** March 2024

- Identified pay gap issues with K-Nearest neighbors reveal female employees pay 10% lower than male but equal in bonus pay between male and female with collaboration to address disparities within teams
- Developed correlation matrices to highlight age and experience as significant predictors of payment gap issues with R-squared coefficient of 0.562 and 0.53, respectively
- Implemented False Positive Rate Disparity with Aequitas Visualizations to evaluate how people over 50 years old and evaluation score of 2 have affected by pay gap and tackle pay equity challenges in future

## SKILLS & INTERESTS

**Languages:** Native Speaking in Chinese
**Technology Skills:** R, Python, SQL, Tableau, Microsoft Office
**Strengths:** Effective communication, problem solving, collaboration ability and long-term memory
**Certificate:** Associate Data Scientist in Python, SQL and R at Datacamp.com