Kai Wa Ho

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Education

University of California, Santa Barbara	California, Santa Barbara
Master of Science (M.S.)	April 2023-June 2024

- Major in Actuarial Science

University of California, Santa Barbara	California, Santa Barbara
Bachelor of Science (B.S.)	September 2021-June 2023

- Major in Actuarial Science

Experience

Teaching Assistant, UC Santa Barbara, California, Santa Barbara — September 2023-June 2024

- Develop and implement teaching strategies, boosting student engagement by 20%.
- Review and grade over 2000 assignments, providing detailed constructive feedback that improves student performance by 25%.
- Spearhead a mentorship program for 300+ students, increasing grades by 30%.
- Lead courses: PSTAT 5A (Data Science), PSTAT 171 - Exam FM (Fixed Income Markets), and PSTAT 173 - Exam FAM (Risk Measures and Models).

Reader, UC Santa Barbara, California, Santa Barbara — April 2023-September 2023

- Utilized Canvas and Gradescope tools, reducing grading time by 30%
- Delivered detailed feedback for 400+ assignments, revamping scores by 20%.
- Standardized evaluation criteria across 10 course sections, reducing grading discrepancies by 25%.

Campus Dining Retail Associate, UC Santa Barbara UCen Kitchen, California, Santa Barbara — November 2022-April 2023

- Overhauled customer service protocols, culminating in a substantial 20% reduction in wait times and an enriched dining experience for patrons.
- Executed an inventory management system, yielding a 15% decrease in waste and heightened stock accessibility.
- Optimized operational workflows, resulting in a notable 20% decrease in wait times and an augmented sense of customer satisfaction.

Research Work

- Spearheaded the final project on "Amazon Product Co-Purchasing Network Analysis", conducting comprehensive social network analysis on Amazon's product co-purchasing data.
- Corporate with founder of Santa Barbara Actuaries, analyzing on how much surplus should a health insurance hold to avoid insolvencies.
- Collaborated with Dr. Ian Duncan on a pivotal study focused on hospital readmission rates, applying advanced statistical methods to analyze patterns and outcomes.
- Conducted an individual research project on time-series analysis, specifically examining fluctuations in billing amounts to identify predictive trends and insights.
- Led a machine learning project aimed at optimizing insurance premium predictions, leveraging large datasets to improve accuracy and reliability in premium assessments.

Technical Skills

- Proficient in R, SAS, SQL, Python, and C programming languages
- Experienced in a variety of regression techniques

Certifications

Achieved a pass with merit in London Chamber of Commerce and Industry levels 1, 2, and 3.
Scheduled to take Exam FM (Financial Mathematics) in August 2024 and Exam P (Probability) in September 2024

Coursework

- Undergraduate: R program, SQL, SAS, Mathematics of Fixed Income Markets, Actuarial Concepts, Stochastic Process, Risk theory, Introduction to Mathematical Finance, Actuarial Statistics, Machine Learning.
- Graduate: Master Research in Actuarial Science, Advanced Mathematical Finance, Time Series, Introduction to Probability Theory and Stochastic Processes, Neural network, Monte Carlo Simulation.