# Yaow Hui Chong

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## EDUCATION

**Data Science Professional Certificate (IBM),** Coursera, November 2022
Skills: SQL, Python, Machine Learning

**University of Nebraska Omaha,** Omaha, NE
*Master of Science in Management of Information System*, May 2022
Concentration: Data Analytics GPA: 3.92/4.00

**University of Nebraska-Lincoln**, Lincoln, NE
*Bachelor of Science in Business Administration*, May 2018
Major: Actuarial Science Minor: Mathematics GPA: 3.77/4.00

## WORK EXPERIENCE

**University of Nebraska-Lincoln,** Lincoln, NE
Utility Services Data Analyst, January 2022 – Present

- Applied VBA programming to automate the monthly utility production reports which effectively cut 50% labor hours on the manual reporting processes
- Built predictive models to predict the hourly campus electric demand usage up to 96 hours ahead to assist with operation decisions
- Reviewed and updated the Fiscal Year 2024 utility rates workbook

**University of Nebraska Omaha,** Omaha, NE
Graduate Research Assistant, August 2020 – August 2021

- Assisted professors by performing literature reviews to explore and summarize prior research and determine future research directions.
- Analyzed datasets and provided data visualizations and descriptive statistics to assist in research.

**Kingsbay Group, LLC,** Des Moines, IA
Purchasing Analyst, November 2018 – December 2019

- Performed cost analysis to determine product profitability for over 500 products.
- Utilized Excel tool to monitor on-hand merchant items, forecast future sales trends based on current sales data and replenish items accordingly.

**University of Nebraska-Lincoln,** Lincoln, NE
Finance Department Actuarial Science Tutor, September 2017 - May 2018

- Collaborated with another tutor to help over 50 students in actuarial science courses with exam preparations.
- Lead students towards academic success and assist with improving actuarial science exam pass rate.

**Sun life Malaysia Assurance Berhad,** Kuala Lumpur, Malaysia
Actuarial Internship (Product development), May 2017 - August 2017

- Conducted life insurance market research and identified competitive intelligence for product development initiatives.
- Assisted with the launch of two products, Sun eSsential series and Sun Hajj.
- Performed user acceptance tests (UAT) on insurance contracts and marketing illustration materials to mitigate risks.

## ACTUARIAL EXAMS

- P/1, July 2016
- FM/2, April 2016
- MFE/3, November 2016
- C/4, February 2017
- MLC, October 2017
- PA, December 2020
- FAP Final Assessment, November 2022
- VEE Economics, Applied Statistics, Corporate Finance

## SKILLS

**General Experience:** Data Modeling (Oracle SQL Developer Data Modeler), Database Management, Data Visualization, Machine Learning, Deep Learning, Actuarial (MG-ALFA), Microsoft Office (Word, Excel, PowerPoint, Access, Visio)

**Programming:** R, Tableau, Python, Java, Vue.js, VBA, SQL, Django, HTML

**Languages:** English, Mandarin, Cantonese, Malay

## PROJECT EXPERIENCE

**1. ISQA 8750 Individual Research,** Fall 2020

- **Title**: Key factors that affect the severity of road accidents: A study on weather conditions and road conditions
- **Description**: Perform data analysis using RStudio and use data visualizations such as box plots and descriptive statistics such as data tables to conclude that the snow, hail/freezing rain, and thunderstorm weather conditions and the junction road conditions significantly increase the road accident severity. Used classification decision tree model to classify the severity of road accidents based on weather and road conditions. Several conditions were found to impact the road accident severity.

**2. ISQA 8156 Group Project**, Spring 2021

- **Title:** Omaha Girls Rock (OGR) summer camp
- **Description:** The main purpose of this project was to help the service-learning partner Omaha Girls Rock (OGR) to improve their summer camp program by providing sophisticated statistical data analysis for a set of research questions. OGR provided pre- and post-participation surveys on their program participants in 2018 and 2019. Our team conducted data analysis and provided descriptive statistics and data visualization for the differences in pre- and post-participant surveys for both 2018 and 2019. We also tested the significant differences of various outcomes in the survey by doing completely randomized design ANOVA tests for each of the questions. In our analysis, we found significant changes in some survey questions and provided some suggestions to change in OGR's upcoming summer camp, such as focus on improving the participation rates for age 12 and age 15 participants by promoting them to group leaders in group activities.

3. **ISQA 8700 Group Project**, Spring 2021

- **Title:** Analysis on Covid-19 Vaccine Adverse Reactions
- **Description:** This project focused on the application of data mining techniques learned in the class. First, we did data cleaning of the datasets to remove the anomalies and missing data. Then, we performed data transformation by changing some of the data types that are suitable for our analysis, for example, changing age into age groups. We used K-mean clustering, logistic regression, and decision tree models based on the training set, and we examined the performance of the data models in the test set. We used confusion matrices to examine the accuracy of the predictions from different data models to compare their performance.

4. **ISQA 8380 Group Project**, Spring 2021

- **Title:** ASAP Delivery
- **Description:** This project is about developing a delivery services web platform. Customers register, then create orders for delivery of groceries, food, or other items. Drivers who are approved to work for the company are notified of new orders and may commit to delivery. Customers are able to submit payment information via the website. Both customers and drivers are able to authenticate using Google credentials. The website has built in features such as foreign currency conversion to simplify pricing for folks not familiar with USD. The main purpose of this project was to get familiar with using REST API as a communication between applications. Some APIs involved in this project were notification, payment, Google Map address, Currency converter, and Google Authentication.