

Education

University of British Columbia

MASTER OF DATA SCIENCE Sep. 2019 - Jun. 2020

Selected Courses: Bayesian Statistics, Machine Learning, Modelling & Simulation, Privacy & Ethics, Resampling & Regularization

University of Victoria

BACHELOR OF SCIENCE IN STATISTICS

Jan. 2015 - Jan. 2019

• Selected Courses: Design & Analyze of Experiment, Stochastic Processes, Sampling, Regression Analysis

Relevant Skills _____

Programming R, Python, MySQL, Spark SQL, CQL, Julia

Software Microsoft Office, Tableau, Markdown, SPSS, EViews, AWS

Language Mandarin Chinese (Native), English (Proficient)

Relevant Work Experience _____

Lausanne Business Solutions

JUNIOR DATA ANALYST-PART TIME

Feb. 2021 - Present

- Sourcing and collecting data, recording and transcribing audio, and validating transcriptions carefully
- Simulating written and audio conversations to train chatbot backstage efficiently
- · Offering Mandarin Chinese consulting including authoring and reviewing grammars accurately

BC Cancer-Kelowna

PROJECT ANALYST-UBC PROGRAM

Apr. 2020 - Jun. 2020

- · Analyzing the demographics for BC Interior Health region cancer patient population with a group of three rigorously
- · Meeting the supervisor and coordinator online every week, giving weekly speech and updating the progress timely
- Finishing and uploading reports, codes efficiently, giving presentation to all stakeholders finally

Zhejiang Unitech Information Technology co., ltd

STATISTICIAN

VIP GUEST ASSISTANT

Jun. 2016 - Jul. 2016

- Analyzing and testing for public opinion analysis system backstage efficiently
- · Observing web crawler operational status and recording the number of news grabbed from various websites in spreadsheets by Excel
- Updating daily top information by summarizing news to a public media platform in time

Volunteer Experience _____

LKKER Conference 2016

• Connecting and balancing one of VIP guest's requirements efficiently

- Adjusting one of VIP guest's schedule, agenda for taking part in the conference till feasible
- Giving response in accidental situations rapidly and flexibly
- · Learning communication and time management skills

Chengguan No.3 Primary School

May 2016

VOLUNTEER TEACHER June 2013

- Generating various lesson plans to account for students' individual variations
- · Introducing mathematic knowledge within a relaxing teaching environment to motivate learners
- · Interviewing several students' families and filling in information forms to figure out problems and suggestions for students in learning process

Selected Projects

Demographics for Interior BC cancer patient population analysis

Apr. 2020 – Jun. 2020

BC Cancer Kelowna

- Goal: Exploring the geographical disparity for cancer outcomes across Health Service Delivery Areas(HSDAs) and Local Health Areas(LHAs) in the Interior Health region from dataset of Cancer Agency Information System (CAIS) at BC Cancer from 2012 to 2016
- **Method**: Examining differences in incidence and mortality regards to the distribution of cancer types by visualizations, detecting differences in cancer incidence and mortality by cancer type amongst HSDAs and LHAs and investigating how incidence and mortality change within ten cancer types across each HSDA and LHA considering age groups or not by Chi-square test and ANOVA tests
- **Tool**: Manipulating R and Tableau to complete the project

COVID-19 virus infection forecast

Apr. 2020 – Apr. 2020

- Goal: Forecasting COVID-19 Virus Infection until May 31, 2020, in Canada with data contained the number of confirmed cases and fatalities of 10 provinces and 2 territories from January 22, 2020, to April 11, 2020
- Method: Presenting model selection with the lowest mean-square error (MSE) from Quasi-Poisson, linear and ARIMA models with different forms of parameters and degrees, predicting confirmed cases and fatalities for the next 50 days, visualizing and analyzing the trends of confirmed cases and fatalities in Canada for each province or territory respectively
- Tool: Manipulating R and Tableau to complete the project

Walmart sales forecast Apr. 2020 – Apr. 2020

- Goal: Forecasting the unit sales of various products sold in the three US states (California, Texas, and Wisconsin) by Walmart in the next 28 days
- Method: Employing recurrent neural networks (RNN) models with tensorflow and sklearn
- Tool: Manipulating Python to complete the project

Images differentiation Mar. 2020 – Apr. 2020

- Goal: Differentiating 300 images including squares, circles and triangles, 100 images of each category
- Method: Employing convolutional neural networks (CNN) models with tensorflow and tqdm
- **Tool**: Manipulating Python in Google Colab to complete the project

Central Okanagan real estate sales evaluation

Mar. 2020 - Mar. 2020

- · Goal: Evaluating housing investment in the Central Okanagan Region, BC and helping company managers make decisions
- **Method**: Estimating the number of aggregate housing sale volume, the average housing price and the total units in the Central Okanagan Region in 2020 using a weighted formula with housing selling data about this Region from January 2017 to February 2020, visualizing and analyzing the housing selling data about the Central Okanagan Region in the past and future
- Tool: Manipulating Excel and Tableau to complete the project

Three cars fuel consumption visualization

Feb. 2020 - Feb. 2020

- Goal: Researching the relationships between three cars fuel consumption and relevant variables
- **Method**: Visualizing the relationships between fuel efficiency and variables including car types, age of the car, the season of the year, the city driving value, the brand of gasoline, and mileage, and the relationship between the month and the fuel consumption
- Tool: Manipulating R to complete the project

Urban social disorder events visualization

Feb. 2020 - Feb. 2020

- Goal: Analyzing and visualizing urban social disorder events among 4 regions from 1960 to 2014
- Method: Visualizing urban social disorder events among 4 regions by 6 plots, including one heatmap, one line plot, one dot map, one stacked bar chart and two pie charts in 3 aspects: total number of urban social disorders, death casualty, and causes of social disorders
- **Tool**: Manipulating Python, Excel and Tableau to complete the project

App reviews procession and classification

- Dec. 2019 Feb. 2020
- **Goal**: handling huge reviews which are mobile applications text with a total of 2715303 by natural language processing (NLP), and reproducing the program from report On the Automatic Classification of App Reviews with randomly selected App reviews to classify them into four categories.
- **Method**: Processing the reviews including removing non-English reviews, non-ASCII characters, punctuations, adjacent duplicate characters and reviews that contain two or fewer words by langid, string and regular expression for the original dataset, counting future tense words, past tense words, present simple tense words and present continuous tense words for each review by nltk and calculating sentiment rating for App reviews by sentistrength, selecting 384 rows App review text from the processed dataset with manually labelled four categories to test the accuracy
- **Tool**: Manipulating Python to complete the project

Player Unknown's Battlegrounds data prediction

Nov. 2018 - Dec. 2018

- Goal: Determining the best model for predicting final placement from in-game stats and initial player rating
- **Method**: Visualizing the distribution of percentile winning placement and correlation between 29 covariates, fitting models for each type respectively where the type split by the match type including linear model, penalized linear regression model and regression tree model
- **Tool**: Manipulating R to complete the project

HIV-1 NRTIs drug class resistance mutations prediction

Oct 2018 - Nov 2018

- Goal: Performing model selection among various models to predict HIV-1 NRTIs drug class resistance mutations
- Method: Fitting several types of models including linear regression, penalized linear regression, logistic regression, regression tree, penalized logistic regression, Linear Discriminant Analysis (LDA), K-Nearest Neighbours (KNN) and classification tree
- **Tool**: Manipulating R to complete the project

Awards and Honours _____

1.	Silver Certificate in the UK Senior Mathematical Challenge	2012
2.	Bronze Standard in the Galois Mathematics Contest for grade 10	2012
3.	Gold medal in the fourteenth "Control the Future" of the National Youth Car Model Competition fo ondary girls of Little White Dragon lightning race	r sec- 2010
4.	Third prize in Ningbo Car Model Championship for advanced of 1/18 Electric Recreational Vehicle	2009
5.	Third prize in Ningbo Car Model Championship for advanced of 1/10 Electric Recreational Vehicle	2009
6.	Grade 10 in Arts Grade Examination of China of Yangqin	2007

Reference _____

Available upon request