

YIFAN LI

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EDUCATION

University College London

2023.09-2024.08 (Expected)

Health Data Science | Master

Core Courses: Dissertation in Health Data Science, Programming with Python for Health Research, Advanced Statistics for Records Research, Applied Computational Genomics, Advanced Machine Learning for Healthcare

Beijing Normal University – Hong Kong Baptist University United International College

2019.08-2023.06

Statistics | Bachelor | CGPA: 3.51/4.0

Awards: First Class Honours Degree certificate from Hong Kong Baptist University

Core Courses: Data Analysis Using R, Advanced Statistics, Survival Analysis, Categorical Data Analysis, Data Mining, Simulation, Time Series Analysis, Structured Programming

RESEARCH INTERESTS

Artificial Intelligence for Healthcare; Biostatistics; Mental health; Clinical research; Epidemiology; Deep Learning and Machine learning; Health economics

PUBLICATIONS

[1] Status and Determinants of Breakfast Eating Behavior among Chinese Residents: A National Cross-Sectional Study

Yifan LI, Co-first Author

Ready to Submit. Sept. 2023

[2] Application of machine learning to predict mental health disorders and interpret feature importance

Yifan LI, Independent Author

Submitted and Accepted by IEEE ISCTIS 2023. May. 2023

[3] Empirical analysis of constructing GARCH model to predict stock price with trading volume

Yifan LI, Independent Author

Submitted and Accepted by CPCI ICFIED 2023. Jan. 2023

RESEARCH EXPERIENCE

Influencing Factors of fertility intentions: a nationwide cross-sectional study

2023.06-2023.07

Research Project

- Processed the obtained questionnaire results, stratifying each variable into discrete variables as appropriate.
- Used STATA to perform statistical analysis, involving variance-inflated factor analysis, selection of significant and potentially influential factors, binary and multinomial logistic regression analysis, and stepwise regression analysis.

Empirical analysis of the spillover effect of trading volume and amount on stock prices - based on VAR (DCC)-BEKK-EGARCH models

2023.02-2023.05

Final Year Research Project led by Prof. Zhengjun Jiang (UIC)

- Added factors of trading volume and amount to the models to explore its spillover effect on stock prices
- Modeled VAR(DCC)-BEKK-EGARCH models on the prediction of stock prices.

Independent Author, Application of machine learning and survival analysis on predicting heart failure

2023.02-2023.03

Winter Programme Research Project led by Prof. Shuangge Steven Ma (Yale University)

- Conducted a comprehensive review of the heart failure data sets, involving Exploratory Data Analysis, survival analysis curve depiction and comparison of survival curves of different groups of people.
- Compared logistic regression, SVM, random forest and other classifiers to fit and predict the data set.

WORK EXPERIENCE

City University of Hong Kong

2023.07 - 2024.06(Expected)

Research Assistant

- Involved in several projects within the research group on topics such as doctor-patient relationship, cost-benefit analyses in health economics, and factor analysis of the impact of health care products or breakfast frequency.
- Participated in research group discussions, wrote research proposals, processed and analyzed data, produced graphs and charts, wrote papers, and selected papers for publication.
- Implemented and built time series, multiple regression, and machine learning classification and prediction models using programming languages such as R and Python.

Huarun Jiangzhong Pharmaceutical Group Co., Ltd.

2021.12 - 2022.02

Intern

- Conducted statistical analysis via SAS in clinical trials and prepared raw data sets and analysis sets based on CFDA requirements and the Clinical Data Interchange Standards Consortium Standard.
- Assessed the necessity and feasibility of specific research in the early stages and headed the statistical research design, including defining treatment groups, setting research goals, selecting appropriate subjects, conducting interim analysis, and adopting adaptive design.
- Monitored data alongside programmers and administrators, drafted and completed the Statistical Analysis Plan, presenting details of therapeutic efficacy and safety analysis, involving the solution on missing data, variable setting, and curve fitting.

Tencent Technology (Shenzhen) Co., Ltd.

2021.07

Data Analyst

- Employed Python and SQL to clean desensitization data, including removing duplicate data, converting data types, and checking scope to conduct preliminary and visual analysis.
- Constructed the Acquisition, Activation, Retention, Revenue and Referral Model (AARRR Model) and created statistical analysis charts of relevant indicators.
- Participated in product selection analysis, performed discretization and serialization of commodity data, proposed a new index "review-price", and conducted statistical analysis on data indexes, generating word clouds for brands reviews using NLP.

National Bureau of Statistics

2021.01 - 2021.02

Intern

- Assisted in implementing the statistical survey on medical and maternity insurance subscriptions, entitlement to benefits, medical assistance records of 1000+ persons in each province under the Central Government, and medical security departments at all levels.
- Liaised with colleagues to complete daily administrative tasks, including human resource management.

HONORS

• President's Honour Roll (Five Times)	2019 - 2023
• Dean's List (Twice)	2021 - 2022
• UIC First Class Scholarship in 2020-2021	2021
• Beautiful China Publicity Ambassador Certificate	2021
• Chinese Mathematics Competitions, Third Price	2021
• UIC Second Class Scholarship in 2019-2020	2020

SKILLS & LANGUAGE

Software: R, Python, MATLAB, SQL, LINGO, C, LATEX, Excel, Photoshop

Language: Mandarin (Native), English (Fluent, IELTS 7.0 (R: 6.5; L: 7.5 ; S: 6.5; W: 6.5)), French (Basic)

Training Courses: Biostatistics in Public Health Specialization, Johns Hopkins University (Coursera) (2022.10)