

Fangqing Yuan

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MS in **Data Science**, Bridge Champion, seek Jobs in Data Science, Quantitative Analytics, Data/Software Engineering, Trading

EDUCATION

University of Michigan, Ann Arbor, MI, USA

Aug 2021- Dec 2024

Master of Data Science

- Course Highlights: Regression and Data Analysis, Data Mining and Statistics Learning, Natural Language Processing, Survey and Sampling Theory, Time Series Analysis, Data Manipulation and Analysis; Courses GPA: 4.0

- Project Highlights:

- Analysis of MERS virus camel-human infection using ARIMA and Partially Observed Markov Process models;

- Language modelling of the origins and characteristics of non-native English learner corpus.

Libera Università Internazionale degli Studi Sociali "Guido Carli" (LUISS), Rome, Italy

Sep 2018 - July 2021

Bachelor of Science in Management and Computer Science

- Full Scholarship, Graduated **110/110 Cum Laude**;

- Course Highlights: Social Network Analysis, Database, Machine Learning, Business Analytics, Finance, Economics, AI&HPC;

- Sep 2020 - Jan 2021, Erasmus Exchange Program @ **Katholieke Universiteit Leuven (KU Leuven), Leuven, Belgium**

- Jun 2020 - Aug 2020, International Honors Program, **GPA: 3.88/4.00 @ Stanford University, Stanford, CA, USA**

- Jun 2020 – Sep 2020, Remote Data Analyst Intern @ Shanghai Gold Exchange

- Project Highlights:

- Regression analysis and innovative design on Bridge hand evaluation methods;

- Visualization and vaccination analysis computer virus propagation based on Sublinear Preferential Attachment Network.

SKILLS

GITHUB: [HTTPS://GITHUB.COM/FREDFREDDO](https://github.com/FREDFREDDO)

- Proficient in Python, R, SQL, MATLAB, C++, hive, spark, hadoop, git, shell;

- Data Visualization and Analysis (pandas, numpy, matplotlib, seaborn, Tableau, Power BI), Cloud Platforms, Web crawling, Natural Language Processing, Machine Learning (Pytorch, tensorflow, scikit-learn), Causal Inference, Sampling methods.

WORK EXPERIENCE

Institute for Social Research | Developer/Assistant | Ann Arbor, University of Michigan

May 2024 – Aug 2024

- Collaborated in developing IVEware software, a **data imputation** tool that may interact with R, SPSS, SAS, STATA;

- Implemented **ordinal regression** algorithm with gradient descent via C++;

- Developed categorical and ordinal data imputation by Multiple Imputation by Chained Equations (sequential regression) algorithm on social and biostatistical dataset.

Kuaishou (Kwai) | Machine Learning Engineer Intern | Beijing

Aug 2023 – Dec 2023

- Designed and implemented user relationship recommendation strategies for **400 million users** via C++ and Java;

- Mined potentially important features from **hundreds of petabytes** of log data of users using hive, SQL, and python, classified unique user groups to facilitate user behavior prediction and recommendation;

- Trained machine learning models that predict user behaviors and generate **user relationship recommendations**;

- Performed **A/B tests** weekly on subsets of user base to evaluate the performance of up-to-date strategies;

- Conducted causal inference and analysis of recommended-side user **ranking boosting strategies** on user retention;

- Developed strategy that would potentially raise **DAU** (daily active users) by **0.1%** according to causal model;

- Demonstrated causal effects of deploying ranking-boosting strategy (**0.29 days, SE 0.06**) in terms of Lifetime 7.

LEADERSHIP EXPERIENCE

Bridge Life Master

Sep 2011 - Now

- **Captain** of high school and junior national team, organized and promoted Bridge to **thousands** of teenagers and students;

- **Multiple** national, continental, and international tournaments **winner**;

- Dedicated to developing **algorithmic** playing strategies, applying data **analytics** in match analysis, assessing bidding strategies by **simulating** 100,000+ boards with Double-Dummy-Solver algorithm, and researching artificial intelligence Bridge tackling **multi-agent asymmetric information game**.

WeResQ | Co-founder | Stanford

Jun 2020 - May 2021

- Led a **startup** of an app optimizing domestic food management by keeping track of expiry dates to **minimize food waste**;

- Analyzed potential competitors' **statistics** and conducted **surveys** on potential customers to improve app design;

- Our team consisted of members from Asia, America, Europe, and Africa.