Fangqing Yuan

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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;
- Project Highlights:

  Analysis of MERS virus camel-human infection using 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 and Big Data, Finance, Business Analytics, Economics;

  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

- Proficient in Python, R, SQL, MATLAB, C++, hive, spark, git, shell;
- Data Visualization and Analysis (pandas, numpy, matplotlib, seaborn, Tableau), Web crawling, Natural Language Processing, Machine Learning (Pytorch, tensorflow, scikit-learn, keras), Causal Inference, Sampling methods;
- Languages: English, Italian, Chinese.

WORK EXPERIENCE

Institute for Social Research | Developer/Assistant | Ann Arbor, University of Michigan   May 2024 – Aug 2024

- Assisted 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++;
- Adopted 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 information 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, and researching artificial intelligence Bridge tackling **multi-agent asymmetric information game**.

WeResQ | Co-founder | Stanford   Jun 2020 - May 2021

- Led a **startup** idea 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.