

Fangqing Yuan

Tel: +1 7344962122 Email: yfqrazy@gmail.com Open to Relocation LinkedIn: <https://www.linkedin.com/in/fangqing-yuan/>

MS Data Science & Bridge Champion with a strong foundation in **machine learning**, **statistical modeling**, and **big data analytics**. Skilled in developing **robust models**, optimizing **decision-making**, and applying AI-driven **solutions**

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. Main Courses GPA: 4.0

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**; Exchange @ KU Leuven; Summer @ Stanford
- Course Highlights: Social Network Analysis, Database, Machine Learning, Business Analytics, Finance, Economics, AI&HPC

SKILLS

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

- **Programming Languages:** Python, SQL, C++, Java, R, MATLAB, TypeScript, Bash
- **Data Processing, Analysis, Visualization:** (Pandas, NumPy, Matplotlib, Seaborn, Streamlit, Tableau, Power BI)
- **Machine Learning** (TensorFlow, PyTorch, Scikit-learn, XGBoost, Scipy, Keras)
- **A/B Testing & Experimentation** (Causal Inference, Bayesian Statistics), **Time Series Analysis** (arima, pomp), **NLP & LLM**
- **Big Data & ETL** (Spark, Hadoop, Hive, Kafka), **Database** (SQL, NoSQL), **Cloud & DevOps** (AWS, Azure, Git, Docker)

WORK EXPERIENCE

JD Framework Solutions, Inc. | Data Science Intern | Remote | Jacksonville, FL

Apr 2025 - Now

- **Assisted** with data processing, analysis, and visualization using Python, SQL
- **Supported** machine learning model development, training, and evaluation

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** data imputation by Multiple Imputation by Chained Equations algorithm on social and biostatistical dataset

Kuaishou (Kwai) | Machine Learning Engineer Intern | Beijing

Aug 2023 - Dec 2023

- **Built and presented** 15+ weekly insights reports, enabling data-driven decision-making for social recommendations
- **Designed and implemented** user relationship recommendation strategies for 400 million users using C++ and Java
- **Designed and deployed** event streaming pipelines using Kafka and hive, enabling real-time detection, extraction, and analysis
- **Developed** high-performance data models for petabyte-scale analytics, reducing inefficient user recommendations by 10%
- **Optimized** treatment conversion by 5% and user retention by 10% using Uplift model with budget constraint
- **Conducted** A/B testing, **cleaned** and **processed** data, **built** and **trained**:
 - Machine learning models to classify and predict user behaviors and preference, optimizing content recommendation
 - Causal models to selected optimal strategies, boosting DAU (daily active users) by 0.1%, and Lifetime 7 by 0.29 days

Shanghai Gold Exchange | Data Analyst Intern | Remote / Shanghai

Jun 2020 - Sep 2020

- **Designed and utilized** Python web crawler gathering gold market data in the past 10 years from different sources
- **Analyzed** Gold price data via financial and time series models, presented comparative analysis of Precious Metals Market

PROJECT HIGHLIGHTS

- **Applied** Partially Observed Markov Process models to simulate and forecast MERS camel-human infection
- **Developed** Language Models to analyze non-native English learner corpora, improving automatic grammatical error detection
- **Developed** an AI-based bridge bidding and playing system, **simulating** over 100,000 boards with Double-Dummy Solver algorithms, **storing** boards in data structure, **improving** game strategies by 20 International Match Points per board

LEADERSHIP EXPERIENCE

Bridge Life Master

Sep 2011 - Now

- **Captain** of high school and junior national team, organized and promoted Bridge to thousands of students and members
- Multiple national, continental, and international tournaments **Champion**
- Thrive on **high-pressured, fast-paced, real-time** analysis, decision making, and game strategies

WeResQ | Co-founder | Stanford

Jun 2020 - May 2021

- **Led** an international startup developing a food management app to minimize food waste by smartly tracking expiry dates
- **Conducted** surveys, market analysis and competitor research to refine product strategy