

# Fangqing Yuan

Tel: +1 7344962122 Email: [yfqcrazy@gmail.com](mailto:yfqcrazy@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>

- **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