

Weizi Zeng

530 Church St., Ann Arbor, MI 48109 | E: weiziz@umich.edu

EDUCATION

University of Michigan

Ann Arbor, MI

Master of Science in Quantitative Finance and Risk Management

Aug 2021-Dec 2022

University of California, Irvine

Irvine, CA

Bachelor of Science in Mathematics, specialization in Applied Mathematics

Sep 2016-Sep 2020

- **GPA: 3.52**

- **Coursework:** Math Modeling; Linear Algebra; Statistical Methods with Applications to FinanceI; Partial Differential Equation; Mathematics of Finance; Numerical Analysis; Calculus; Statistics; Probability Stochastic Process; Elementary Analysis; Group Theory; Programming for Data Science; PDE Research

- **Minor:** Management

RESEARCH AND PROJECT

School of Physical Sciences, University of California, Irvine

Irvine, CA

Forecasting COVID-19 infection rate supervised by Professor Long Chen

Mar 2020-Jun 2020

- Applied SIR and SEIR models on forecast the United States COVID-19 infection trends
- Researched and optimized SIR model with delayed differential equation (DDE) to reduce the influence of incubation period
- Proposed Markov Chain Monte Carlo to develop the DDE model with and increased 40% accuracy

Tsinghua University Sichuan Energy Internet Research Institute (EIRI)

Chengdu, China

Forecasting Throughput Capacity of Logistics Park supervised by Dr. Liang Song

Jul 2018-Sep 2018

- Mined 2GB data from industry logistics park and cleaned data to create the historical data base through SQL
- Researched and applied ARMA model and RNN model to analyze data to predict the future throughput and reduced management cost for 23%
- Developed and maintained throughput capacity models to improve the precision of forecast

LEADERSHIP AND WORK EXPERIENCE

Tsinghua University Sichuan Energy Internet Research Institute(EIRI)

Chengdu, China

Data Analysis Group Internship

Jun 2018-Sep 2018

- Researched and drew Personas to identify valid data for 10 different industrial customers
- Led and instructed 5 interns to apply the KNN classification method to analyze raw data
- Used MySQL and Python to dig data and make models with senior engineers

Mathematics Department, School of Physical Sciences, UCI

Irvine, CA

Learning Assistant

Apr 2018-Jun 2018

- Assisted and collaborated with professors and teaching assistants to operate lectures and discussions
- Coached students to analyze and speculate methodology to solve the difficulties in Math
- Built and lead discussion groups to create better study environment

Learning and Academic Resource Center, UCI

Irvine, CA

LARC After Dark Leader

Jun 2018-Dec 2018

- Provided professional academic help to 300 students who struggled in Math
- Collaborated with other 4 leaders to help students improve math problem solving skills

SKILLS

Technical Skills: Advanced: MATLAB, Mathematica, Excel, and PowerPoint

 Intermediate: Python, MySQL, C++, R

Language: English (fluent), Mandarin Chinese (native)