GUAN Xin

Email : xguanaf@connect.ust.hk
Github: https://github.com/xg99

Mobile : (+852)5566-5164

Education

- **The Hong Kong University of Science and Technology** — Hong Kong, China
  Masters in Data-Driven Modeling; GPA: 3.74/4.3 — *Sep 2021 - June 2022*
  Courses: Network Modeling, Information Science, Numerical Methods and Modeling in Science, Machining Learning.
- **South China Normal University** — Guangzhou, China
  Bachelor of Physics; GPA: 3.39/5 — *Sep 2017 - June 2021*
  Courses: Linear Algebra, Advanced Mathematics, Scientific Simulation and Computation.

RESEARCH INTERESTS

- **Substantive**: Computational Social Science, Social Media, FinTech
- **Methodologies**: News Diffusion, Causal Inference, Machine Learning, Data Mining

Research Experience

- **Social media Analytics for Financial Technology and Services** — HongKong, China
  Assistant Data Analyst - Supervisor: Prof.Jonathan ZHU — *July 2022 - Current*
  Laboratory for AI-Powered Financial Technologies Limited (AIFT)
  - **Events Manager**: Direct the team forward on the project. Act as a bridge in the team and facilitate the integration of different research directions.
  - **Data Collection&Mining**: Crawl and integrate financial public opinion trends and news related data from a variety of online platforms. Mining and extract the useful fields among the numerous data collection.
  - **Prediction of cryptocurrency price based on news media data**: By means of time series models, considering the characteristics of cryptocurrency, I aim to build a novel approach that could identify the valuable information from news which could help predict cryptocurrency prices.
- **AI-assisted Research on Educational Psychology** — HongKong, China
  Supervisor : Prof. Tai-Kai Ng, HKUST — *October 2021 - August 2022*
  - **Project description**: Build a model for application to the market, which can help teachers to define student thinking patterns and teach them efficiently.
  - **Technical skills**: Python, SPSS
  - **Content**: Using Pandas in Python to clean log data, and find the behaviour patterns. Find the correlations between variables using SPSS.
- **Analysing cooperation in the Prisoner's Dilemma game in Scale-Free Graphs** — HongKong, China
  Supervisor : Prof. Michael Wong, HKUST — *October 2021 - December 2021*
  - **Project name**: Analysing cooperation in the Prisoner's Dilemma game in Scale-Free Graphs
  - **Project description**: Explored the evolution and the structure of cooperation in the Prisoner's Dilemma Game(PD game). Simulated the PD game in BA networks and PD game in rewired scale-free networks (SF networks). Compared the extent of cooperation between SF networks and BA networks
  - **Technical skills**: Python
  - **Content**: Simulated the PD game in BA networks and PD game in rewired scale-free networks (SF networks). Explored influence of initial conditions

Honors and Awards

- Won the Best Performance Prize for the course: Stochastic Processes and Application in HKUST, December 2021
- 2020-2021 Third Prize of South China Normal University at School Level
- 2020 Outstanding Intern, Outstanding Internship Captain, Internship Activist, South China Normal University Education Internship
- 2019-2020 Dean's Honour Student of the Year (top 2%-10% of majors), South China Normal University
- Got the annual award of Excellent Intern of South China Normal University, 2020
- Won the third prize in Guangdong 19th Physics Experiment Design Contest for College Students, October 2018

Skills Summary

- **Programming Languages**: Python, R, SQL, MATLAB, SPSS, LATEX
- **Tools**: Pandas, Scikit-learn, NetworkX, Tensor