CHONGFENG LING

London, UK

📞 +86-15857620055 ✉ chongfeng.ling.22@ucl.ac.uk 🔗 linkedin.com/in/Chongfeng Ling ⭘ github.com/chongfengling

Education

University College London   Sept. 2022 – Sept. 2023
Master of Science in Scientific and Data Intensive Computing   *London, UK*

University of Liverpool   2022
Bachelor of Science (honors) in Applied Mathematics, First Class Honours   *Liverpool, UK*

Xi'an Jiaotong-Liverpool University   Sept. 2017 – June 2022
Bachelor of Science in Applied Mathematics, First Class Honours   *Jiangsu, China*

Relevant Coursework

- Research Software Engineering
- Supervised Learning
- Numerical Analysis
- High-Performance Computing
- Inverse Problems in Imaging
- Research Computing
- Computational MRI
- Information Retrieval
- Differential Equations

Research Experience

A Graph-Based Solver in the University Timetable Scheduling   Sept. 2021 – June 2022
Final Year Project
- Formulated timetabling problem in coloring of graph and decomposed into samll sub-graphs.
- Modified Tabu Search algorithm and its improved version to get benchmarks of XJTLU timetable assignment.

Queuing System Simulation   Apr. 2020 – May 2020
Research Associate   *Jiangsu, China*
- Visited the operating conditions of a school restaurant, before modelling its passenger flow.
- Simulated queuing model based on Monte Carlo Method and visualized computing result via Matlab.

Indoor Localization Based on Wi-Fi Fingerprinting and CNN   Jun. 2018 – Aug. 2018
Research Assistant, Summer Undergraduate Research Fellowships in XJTLU   *Jiangsu, China*
- Presented a new location fingerprinting database comprised of Wi-Fi received signal strength (RSS) and geomagnetic field intensity measured with multiple devices at a multi-floor building.
- Mapped RSS data for a reference point to an image-like, two-dimensional array and provided preliminary results of localization based on Convolutional Neural Network.
- Used a modified random way point model to efficiently generate continuous step traces to imitate human walking.

Internship and Project

Mathartsys, Inc   Feb. 2021 – Sept. 2021
Algorithm Research (NLP) Intern   *Shanghai, China*
- Generated and maintained scripts to pull and visualize remote data automatically.
- Modified, segmented and augmented voice transcription text based on Regular Expression and Word Embedding.
- Built a multitasking NLP system with BERT and provided support for the company's downstream business including forum public opinion analysis (Sentiment Classification) and sales voice quality (Named Entity Recognition). The system has been applied in a series of BMW automobile retailing stores with satisfying outcomes.

Awesome-XJTLU   Apr. 2021 – Now
Contributor
- Created a open-source knowledge sharing platform on Github Page for undergraduates, including course notes, internship consultation, and graduate program information.
- Collaborated with team members using version control systems such as Git to organize modifications tasks.

Technical Skills

Languages: Python, Matlab, Java, LaTex, Git, SQL
Technologies/Frameworks: PyTorch, Linux, GitHub

Leadership / Extracurricular

XJTLU-Enactus   Sept. 2017 – Apr. 2019
Publicity Director, Project Manager
- Initiated and organized bad-looking fruits orientations near the campus and market; guided groups of more than 30 students and educated them about fruit supply chain and value of unsightly food.
- Supervised the daily operation of the project including event hosting and public relation.