



CHONGFENG LING

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Education

Xi'an Jiaotong-Liverpool University

Bachelor of Science in Applied Mathematics

Sept. 2017 – June 2022 (Expected)

Jiangsu, China

The University of Liverpool

Bachelor of Science (honors) in Applied Mathematics

2022 (Expected)

Liverpool, UK

Relevant Coursework

- Numerical Analysis
- Optimization Theory
- Operation Research
- Java Programming
- Probability & Statistics
- Differential Equations
- Abstract Algebra
- Population Dynamics

Research and Projects

FYP

Research Associate

- SSS

Sept. 2021 – June 2022

Awesome-XJTLU

Research Associate

- SSS

Apr. 2021 – Now

Queuing System Simulation

Research Associate

- SSS

Apr. 2020 – May 2020

Jiangsu, China

Mathartsys, Inc

Algorithm Research (NLP) Intern

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- Explored ways to visualize and send a daily report of test results to team members using Jupyter, Pandas and Excel.

Feb. 2021 – Aug. 2021

Shanghai, China

Summer Undergraduate Research Fellowships, XJTLU

Research Assistant

- 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.
- Provided preliminary results of localization and trajectory estimation based on convolutional neural network (CNN) and long short-term memory (LSTM) network with this database.
- Mapped RSS data for a reference point to an image-like, two-dimensional array and then apply CNN which is popular in image and video analysis and recognition.
- Used a modified random way point model to efficiently generate continuous step traces imitating human walking and train a stacked two-layer LSTM network with the generated data to remember the changing pattern of geomagnetic field intensity against (x,y) coordinates.
- Demonstrated the usefulness of our new database and the feasibility of the CNN and LSTM-based localization and trajectory estimation with the database.

Jun. 2018 – Aug. 2018

Jiangsu, China

Experience

Awesome-XJTLU | *GitHub, LaTeX*

- Collaborated with team members using version control systems such as Git to organize modifications tasks.

Apr. 2021

Queuing System Simulation | *Matlab*

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Apr. 2020

Technical Skills

Languages: Python, Matlab, Java, LaTeX, Git, SQL

Developer Tools: VS Code

Technologies/Frameworks: Pytorch, Linux, GitHub

Leadership / Extracurricular

XJTLU-Enactus

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.
- Wrote promotional tweets and
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Sept. 2017 – Apr. 2019