

Yaoxuan Ju

Phone: (+86) 18061335368 | Email: [Add your .edu email](#) | GitHub: [Add your GitHub](#)

Homepage: [Add your personal website](#) | LinkedIn: [Add your LinkedIn link](#)

EDUCATION

University of Manchester

Bachelor of Science in Computer Science and Mathematics

Manchester, UK

Sept. 2021 – Present

- **GPA:** [Wait for 23 Fall](#) / 4.0 (top 10%)

Xi'an Jiaotong-Liverpool University (XJTLU)

Bachelor of Engineering in Data Science and Big Data

Suzhou, Jiangsu Province, China

Sept. 2019 – Jun. 2021

- **GPA:** [Wait for WES](#) / 4.0
- **Relevant Courses:** Artificial Intelligence, Computer Architecture, Computer Programming, Calculus, Data Science, Linear Algebra, Multivariable Calculus, Operating Systems, Physics, Probability, Statistics, [Wait for 23 Fall](#)

RESEARCH EXPERIENCE

Summer 2023 Research

Student Summer Research Internship | [Advisor: Prof. XXX, University of Manchester](#)

XX. 2023 – XX. 2023

-
-
-

Utilizing Machine Learning for Caloric Estimation in Recipe Analysis

Student Summer Research Internship | [Advisor: Prof. XXX, University of Manchester](#)

Jun. 2022 – Sep. 2022

- Contributed to the development of an AI-based caloric calculator web application used by Friends of the Earth (FoE) Manchester
- Executed data pre-processing procedures, including data collection, data cleaning, data visualization, etc. using Python
- Enhanced FoE website with front-end and back-end software development and gathered user feedback by building an embedded tool

Development of AI-powered Autonomous Food Delivery Vehicle

iFlytek Co., Ltd. Student Research Competition | [Advisor: Prof. XXX, University of Manchester](#)

May. 2021 – Sep. 2021

- Developed a self-driving vehicle model based on Ubuntu and robot operating system programming
- Built speech interaction module and visual navigation module with machine learning algorithms, including LSTM and YOLO
- Accomplished task of meal delivery and menu announcement by experiments on hyperparameter fine-tuning

Computer-Aided Repurposing of Pentostatin: A Novel Target Discovery Research

Institute of Materia Medica, Chinese Academy of Sciences | [Advisor: Prof. XXX, University of Manchester](#)

Jun. 2019 – Sep. 2019

- Devised an innovative medicine repurposing approach to identify potential active compounds for new targets on 1,813 approved medicines with Schrodinger software
- Conducted biological data screening and 3D protein reconstruction for Pentostatin using deep learning algorithms
- Performed molecular docking of small molecule inhibitors to the DOT1L protein target (PDB ID: 4HRA) on Pentostatin by employing SP model with optimized parameters

PROJECT EXPERIENCE

Fall 2023 Biomedical Class Project | [XXX Course Projects](#)

-
-
-

Real-world Applications of Machine Learning | [Machine Learning Course Projects](#)

- Implemented k-nearest neighbors algorithm (k-NN) for news articles classification and experimented on hyperparameter selection
- Incorporated L2-regularized linear regression algorithm with bias terms and utilized cross-validation to optimize regularization hyperparameters for face recognition, achieving a test accuracy of 0.935

ADDITIONAL INFORMATION

- **Skills:** C, C++, CSS, HTML, Java, JavaScript, Keras, LaTeX, Linux, MATLAB, Python, PyTorch, SQL, TensorFlow
- **Honors & Awards:** [Wait for your honors & awards](#)
- **Publications:** [Wait for you to upload papers on arXiv](#); in addition, do you have patents?