Yu FAN

501 N Henry St, Madison, WI, USA ▪ +01 (608)556 6200 ▪ fyu3228@gmail.com

EDUCATIONAL BACKGROUND

UNIVERSITY COLLEGE LONDON, BARTLETT SCHOOL OF PLANNING   **LONDON, UK**
BSc Urban Planning and Real Estate   Upper Second Honors   *2021.09-2024.06*

COURSERA ONLINE COURSES
Introduction to Statistics   *2023.10-2023.11*
ArcGIS   *2023.06-2023.10*

UNIVERSITY OF WISCONSIN–MADISON, DEPARTMENT OF GEOGRAPHY   **MADISON, US**
MSc Geographic Information Science and Cartography   *2024.09-2025.06*

INTERNSHIP AND RESEARCH EXPERIENCE

HANGZHOU KUAYUAN SURVEYING AND MAPPING CO., LTD.   **HANGZHOU, CHINA**
Developer (Remote)   2024.08 – Now

▪ *Led the back-end development of a portal website*

- Login authentication and user authorization management using Spring Security and RBAC design principle

- Implemented CRUD operations using Spring Boot and MyBatis-Plus (More information please check following URL:

https://github.com/anfjbajfa/web_development/)

STAR VISION AEROSPACE GROUP LIMITED   **HANGZHOU, CHINA**
Remote sensing Intern R&D Development   *2023.05 – 2023.09*

▪ **Remote sensing project for Saudi Arabia**

-Harnessed platforms such as GEE and USGS Explorer for the acquisition of imagery data.

-Applied Python GDAL library to quickly complete the image cropping and mosaic, band composite, metadata analysis, etc.

-Realized the output of remote sensing thematic maps of NDVI, LAI, and land surface temperature.

▪ **Loss prediction after typhoon project**

-Supported visual interpretation and the drawing of training samples for plastic greenhouses in LuQiao District.

-Employed Envi's machine learning classification (Support Vector Machine) with an accuracy of more than 80% through validation.

▪ **Soybean acreage forecast project in Indiana, USA**

-Searched and compiled site data for rainfall, soil moisture, and temperature of Indiana into Excel.

▪ **Self-exploration of the UNet semantic segmentation model**

-Built UNet model with PyTorch and completed the extraction of 100 square kilometers of buildings in downtown Philadelphia, the techniques of image augmentation and image slicing were applied.

URBAN PLANNING& RESEARCH INSTITUTE OF POWERCHINA, HUADONG ENGINEERING CORPORATION LIMITED
HANGZHOU, CHINA

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Intern   *2022.06 – 2022.09*
- Completed a report comparing the development patterns of the UK and Chinese planning systems
- Assisted in creating a comprehensive presentation on the impact of digitization on urban development, offering an in-depth analysis of the future opportunities and challenges in the development of smart cities

UNIVERSITY COLLEGE LONDON   **LONDON, UK**
URBAN LAB   *2022.01 – 2022.02*
Research Assistant
- Participated in qualitative analysis using QGIS to analyze the link between the level of higher education and social poverty

EXTRACURRICULAR ACTIVITIES

UCL ARTIFICIAL INTELLIGENCE SOCIETY   **LONDON, UK**
Senior Member   *2023.10 – 2024.05*
- Keep myself updated on the latest trends of the AI field
- Attended regular machine learning tutorials

SKILLS AND HOBBIES

- Computer skills: Microsoft Office, Excel, ArcGIS, Envi, Python, Java, SQL, QGIS
- Languages: English (Proficient), Chinese (Native)
- Hobbies: Swimming, Ping pong