RESEARCH + SOFTWARE

ZHONGJIE HUANG

AI & Computer Science

United Kingdom | Personal: zhjpersonal83@gmail.com | www.zhongjiehuang.com

University: zhuang68@sheffield.ac.uk

My course has ended. The university has notified me that this account will be closed; it is currently usable and is expected to stop working in January 2027. Please use my personal email for ongoing correspondence.

GitHub / zhongjiehuang1 | LinkedIn / Zhongjie Huang

PROFILE

I work across computer vision, machine learning evaluation and software development. My projects connect model experiments with usable systems, with particular attention to what the evidence supports and where it stops.

PhD interview completed • Awaiting outcome. Available for full-time and part-time work, subject to the conditions of my Student visa. Please contact me to discuss the details.

EDUCATION

University of Sheffield
Awarded 22 October 2026

MSc Artificial Intelligence

Merit

University of Sheffield
Graduated 1 July 2025

BSc Artificial Intelligence and Computer Science

Upper Second Class (2:1)

SELECTED ACADEMIC PROJECTS

Quantitative Histology Analysis
2026

Individual MSc dissertation project

- Compared QuPath, Cellpose-DINO, Cyto R-CNN and CSGO pipelines, examined their quantitative outputs, and assessed downstream models with attention to grouping and the independence of evaluation data.
- Segmentation agreement, measurement fidelity and downstream predictive value require separate evidence. This public overview explains those concepts without publishing numerical dissertation results.

Python / QuPath / Cellpose-DINO / Cyto R-CNN / CSGO / Grouped evaluation

Facial Expression Recognition
2025

Individual undergraduate project

- From camera capture to a predicted label: a pretrained vision model, two training stages and a Java web prototype.
- The final report records 76.25% accuracy on its mixed test set.

Python / PyTorch / Swin Transformer / Java / Tomcat / HTML / CSS / JavaScript

SELECTED SOFTWARE PROJECTS

Star Hub - Official AI model workspace

2026

Use your own provider key to chat with AI models and work with images, audio, batch jobs and realtime voice. Official API addresses and the actual request source are visible in the interface.

Project summary | Live demo | Public source

IAFM - Investment & financial management

Portfolio project

Personal software project

- A Java MVC application for multi-currency financial reports, paired account transfers and administrator-managed inflation records.
- The existing Java MVC structure separates request handling, domain logic and persistence. Server-side account permissions control inflation maintenance, while transfer entries are written and reversed together in database transactions.

Java / SQL / Domain modelling / Access control / Dashboard UX

Project summary | Live demo | Public source

TECHNICAL TOOLKIT

Programming & interfaces: Python, HTML / CSS / JavaScript

Machine learning & vision: PyTorch, Swin Transformer, OpenCV, QuPath, Cellpose-DINO, Cyto R-CNN, CSGO, scikit-learn

Data & engineering: NumPy, pandas, Matplotlib, SQL, Maven, Git, Docker, Linux, Tomcat 9

Research practice: Baselines, grouping and leakage checks, error analysis, traceable experiments, literature synthesis and clear statements of limitations.

Communication: Chinese; English - used in UK university study and technical communication