Guqiao Liang

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github.com/GuqiaoLiang

Education

University of Nottingham, United Kingdom One-year Exchange Sept 2025 - Jun 2026

- **Key Modules:** Developing Maintainable Software (Agile method and DevOps principles), Operating System and Concurrency

University of Nottingham, Ningbo China BS in Computer Science Sept 2023 - Jun 2027

- **Current GPA**: 4.0/4.0 (81/100)
- **Key Modules:** Software Engineering, Programming Paradigm, Introduction to Artificial Intelligence (95/100), Mathematics for Computer Science(93/100)

Language proficiency

IELTS 8/9

- Reading : 9 Listening : 9 Writing : 7 Speaking : 6

German A2

- Taking interfaculty German Course at the University of Nottingham

Awards

Provost's Scholarship Sept 2024

Ranked Top 5% among computer science major students

Outstanding Freshman Scholarship Sept 2023

Ranked Top 10% among Gaokao students

Technical Experience

LLM-based Spreadsheet Processing Agent University of Nottingham Sept 2025 – Present

- Elected as the group administrator, responsible for meeting arrangement and project progress supervision
- Conducted background research on the application of LLM in spreadsheet handling, compared and contrasted different products
- Created a pitch video highlighting the limitation of existing products and presenting our proposed framework

Build Your Own World – CS61B Course Project University of California, Berkeley Jun 2025 – Aug 2025

- Built a 2D maze game with features of saving and loading game states using Java visualization library
- Applied principles of software engineering through modularizing game components including avatar, ghosts and treasures
- Implemented heuristic search (A* algorithm) for the avatar to find the shortest path automatically

Creating RISC-V CPU - CS61C Course Project University of California, Berkeley Jun 2025 – Aug 2025

- Used **Logisim**, a visual hardware simulator to design a 2-stage pipelined CPU
- Analyzed the mapping between machine code and ISA using Excel
- Built CPU components (control unit, ALU, instruction memory, register files) from elementary logic gates
- Handled control hazard through smart branch prediction

Exploring AI techniques in 3D model generation University of Nottingham Mar 2025 – Jun 2025

- Explored over 20 3D generative models under the supervision of Boon-Jiin Lee
- Created a simulation of two animated characters playing together using **Mixamao** and **Unity**
- Wrote a report comparing and contrasting the performance of different 3D generation models (Meschy, Tripo, etc.)

Leader of machine learning project University of Oxford Aug 2024 – Sept 2024

- Took the course **Advanced Topics in Statistical Machine Learning**, offered by Tom Rainforth
- Applied Vision Transformer to dog breed classification over 240 dog classes, **here is the link to the project**
- Capable of using PyTorch to build models and Latex to write reports
- Won the outstanding team award in model performance (the third place among 20 teams) and report writing **(Award prize 100 £)**

Artificial Intelligence Tutor Chinese Industrial Design Museum, Shanghai Jun 2024 – Aug 2024

- Taught machine learning (decision tree, convolutional neural network) concepts for 20 elementary school students.
- Designed learning material, available at **github.com/GuqiaoLiang/Allen-s-magical-world**.
- Helped students design electronic clock using Arduino

Social Experience

Nottingham British Parliamentary Debate Group Coordinator Sept 2024 - Jun 2025

- Organized 10 weekly debates, working as the judgment evaluating player's performance and providing analytical feedback to them
- Instructed new members on the basic knowledge of British parliamentary debate to help them succeed in competition

Freshman Peer Mentor Sept 2023 - Oct 2023

- Designed and facilitated ice-breaking activities for 10 incoming freshmen during Orientation Week
- Provided proactive mental health support through online conversation and personality forms

Skills

Languages: Java, Python, C++, C, Matlab, SQL, RISC-V, MIPS, Haskell

Developing tools: Github, Gitlab, Intellj , VsCode, Unity
Moocs taken: Machine Learning Specialization, Data Structure in Coursera