

CHARLENE CHAO-RONG CHEN

charlene.chen.23@ucl.ac.uk | 0783-657-7086 | [linkedin.com/in/charlene-chen/](https://www.linkedin.com/in/charlene-chen/) | [charlene-chenn.github.io/github-portfolio/](https://github.com/charlene-chenn/github-portfolio/)

SKILLS

Languages: English (Native), Chinese (Native)

Programming Languages: Java, Python, C, C++, Matlab, VBA, Arduino, HTML, CSS, Javascript, TypeScript, Bash

Tools/Frameworks: PyTorch, Tensorflow, React.js, Git, PyBullet, Fusion 360, Cura, Figma, Tableau, Agile, Adobe Creative Suite

Certifications: NVIDIA-Certified Associate for Generative AI LLMs

WORK EXPERIENCE

Cisco London, United Kingdom

Artificial Intelligence Engineering Intern March 2025 - Present

- Develop agentic network for 3D printing and rapid prototyping with integration of LLMs, Generative Design, and model tuning

AcoustoFab, UCL Interaction Centre Multisensory-Devices Group London, United Kingdom

Software Engineering Research Intern June 2024 – September 2024

- Conducted acoustic manipulation for specialized tasks on phased arrays of transducers using C++ and machine vision

Siemens Taipei, Taiwan

Assistant Data Analysis Engineer June 2022 - July 2022

- Performed systems testing on integrating Siemen's building management system with third-party systems
- Analyzed 4 months of Siemens' energy datasets and public datasets to identify efficiency drivers and forecast infrastructure usage using Excel VBA, NumPy, and Matplotlib

RESEARCH/PROJECT EXPERIENCE

Real-Time AI-Powered Personal Translator London, United Kingdom

Winner of HackLondon25 by OpenAI, Bending Spoons, & Jetbrains March 2025

- Leveraged OpenAI's Realtime API and Twilio to integrate real-time translation for 50+ languages into phone calls
- Conducted model tuning and prompt engineering to implement minimal latency, accurate translations, and guardrails

Robotic Grasp Classifier Simulation Framework London, United Kingdom

Second Year Term Project October 2024 – December 2024

- Developed grasp classification model using machine learning with 9000+ grasp data generated with PyBullet simulation

LEADERSHIP EXPERIENCE

UCL Artificial Intelligence Society London, United Kingdom

Head of Operations June 2024 - Present

- Cross-functional management of leadership team and society initiatives: AI Foundry, Nexus Labs, Machine Learning Tutorials
- Facilitated interdisciplinary student-led research for over 150 students as research branch administrator

FIRST Robotics Competition Taipei, Taiwan

Head of Statistics/Strategy and Outreach August 2019 - June 2023

- Compiled comprehensive data-driven strategy through team liaison and scouting
- Led initiatives to promote STEM education: organize team visits, build robotics department's website, curate open-source swerve documentation, and host interactive events encouraging female and younger students' participation
- Qualified for World Championship in 2023 Hawaii Regional, 2023 Canadian-Pacific Regional, 2021 New Taipei City Regional

EDUCATION

University College London London, United Kingdom

Master of Engineering Robotics and Artificial Intelligence September 2023 - Present

Relevant Coursework: Linear Algebra, Multivariable Calculus, Discrete Math, Probability and Statistics, Optimization,

Differential Equations, Data Structures and Algorithms, Mechatronics, Control Systems, Machine Learning, Modeling and Simulation

Taipei American School Taipei, Taiwan

Advanced Placement Scholar with Distinction, High School Diploma August 2014 – June 2023

Received 4.49 GPA and 4-year honour roll

Relevant Coursework: Vector Calculus, Artificial Intelligence, Machine Learning, Computer Vision, Web Application Development