

Kuanhsun Tu

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Citizenship: Taiwan

Research Interests

Quantum Information Networks, Advanced Networking and Communication Systems, Medical Image Processing and Analysis

Education

National Taiwan University

Taipei, Taiwan

BS in Computer Science and Information Engineering

Sep 2021 –

Present

Experience

Project Manager & System Administrator, Managed and Constructed DOM Judge System

Malaysia National Programming Contest

May 2024 – Sep 2024

- Led a team and ensured smooth event execution.
- Procured hardware and set up PXE server and physical network environment.
- Managed network services for 2000+ teams and set up DOM Judge according to ICPC World Final standards.

Team Leader, System Administrator

National Taiwan University, Department of Computer Science and Information Engineering

Sep 2023 – Present

- Led a team of 40, managing Web, Workstation, and Mail groups.
- Trained new students and served as the lead teaching assistant for the Network Administration and System Administration course.

Developer, Neuroscience Research Tools

School of Medicine, Neuroscience Lab

Feb 2024 – Present

- Link: [Github](#)
- Developed an automated tool for counting cells using Mask RCNN, PyQt5, and Flask.
- Improved experimental efficiency and accuracy in analyzing neuron interactions in ZI and LHb brain regions.

Research Intern, Lab of Nanoscience

Academia Sinica, Institute of Physics

Jul 2023 – Present

- Conducted machine learning research on STM images.

Makerspace Administrator

National Taiwan University

Sep 2023 – Dec 2023

- Established space regulations and managed the team from scratch.

Skills**Programming**

Familiar with: Python, C, JavaScript, HTML, CSS.

Software

LaTeX, Git, Docker, Flask, PyQt5, Apache2, Network and System Administration Tools (e.g., Wireshark, PXE Server).

Languages

Chinese (native), English (fluent; TOEFL: 105).