

LUN-YU YUAN

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OBJECTIVE

Highly motivated master's student with a strong foundation in both hardware and software. Working independently and collaboratively with exceptional problem-solving skills. Seeking a role to apply my comprehensive knowledge and technical skills.

EDUCATION

Universität Stuttgart, Stuttgart, Germany

OCT 2022 – May 2025

M.Sc. Information Technology – Specialization in Computer Hardware/Software Engineering

- **Research Project:** Interpretability Study of Large Language Models with Probing Techniques
- **Master Thesis:** Training LLMs on domain-specific knowledge base with reinforcement learning based on preference data (In progress)

Chung Yuan Christian University, Taoyuan, Taiwan

SEP 2017 – JUN 2021

B.Sc. Electrical Engineering – Specialization in Communication and control systems

WORKING EXPERIENCE

Institute for Parallel and Distributed Systems (IPVS), Universität Stuttgart

JUN 2023 – MAR 2025

Research Assistant

- Researched deterministic communication for **Time Sensitive Networks (TSN)** and developed C++ simulation in **OMNeT++/INET** framework for wired-wireless network communication in the Deterministic6G project.

PROJECTS & EXTRACURRICULAR

Training LLMs on domain-specific knowledge base with reinforcement learning based on preference data [Link](#)

NOV 2024 – MAY 2025

- Fine-tuned the LLaMA-3 model on domain-specific synthetic data using **PyTorch** by optimizing **Direct Preference Optimization (DPO)** to enhance alignment with preference-based training objectives.

DETERMINISTIC6G [Link](#) [GitHub](#)

JUN 2023 – MAR 2025

- Integrated **IEEE 802.1AS** with **Deterministic6G** framework enabling reliable cross-network communication between wired and wireless domains.
- Implemented timestamping subsystem with delay management; created simulation models for industrial applications

INET Framework [Link](#)

JUN 2023 – MAR 2025

- Implemented **IEEE 802.1AS gPTP protocol** for precise time synchronization in **TSN** simulations.
- Developed multi-domain synchronization and models demonstrating gPTP in various network topologies.

Interpretability Study of Large Language Models with Probing Techniques [Link](#)

NOV 2023 – APR 2024

- Applied **Logit-Lens** and **Tuned-Lens** techniques to analyze the LLaMA-2-7B model using Python and **PyTorch**, uncovering interpretable signals within LLM decision-making processes.

Canny Edge Detection with GPU Acceleration (OpenCL) [Link](#)

JAN 2024 – MAR 2024

- Applied **OpenCL**, **OpenCV** and **C++** to achieve Canny Edge Detection on GPU acceleration.

SKILLS

Programming Languages: Python, C/C++, Shell Script, Rust, Solidity

Tools: Git, PyTorch, Linux, openCL

Languages: Chinese (Native), English (IELTS 6.0), German (Completed B1 level course at Goethe-Institut Taipei)