Jiuen Feng

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Research Interest: Human-Computer Interaction; Embodied Intelligence

EDUCATION

Lund University (Sweden)

Sept. 2024 – Jun. 2026 (Expected)

MSc candidate in Machine Learning Systems and Control

GPA: 4.67/5

Major courses: Machine Learning(5), Image Analysis(5), Learning-based Control(4), Modelling and Learning from

Data(4), Monte Carlo and Empirical Methods for Stochastic Inference(5)

University of Science and Technology of China (C9 Project)

Sept. 2020 – Jun. 2024

Bachelor of Automation, School of Gifted Young

GPA: 3.16/4.3

Major courses: Computer Program A, Data Structure and Algorithm, Principles of Automatic Control, Actuator

Technology, Principles of Computers and Embedded Systems

Graduation thesis: Real-time Pose Prediction Based on Resistive Pressure Mapping Devices

National University of Singapore (Summer Workshop)

Jul. 2023

Artificial Intelligence of Things, School of Computing Summer Workshop

3rd Prize

Project: Lamp Based Smart Home Hub (Team leader)

Simon Fraser University (Summer Research)

Jul. 2023 — Sept. 2023

School of Computer Science

Paper: Tagnoo: Enabling Smart Room-Scale Environments with RFID-Augmented Plywood (3rd Author)

AWARDS

Outstanding Student Scholarship, USTC	2022
RoboGame Competition, 2nd Prize (Top 12/41), USTC	2022
Chinese Mathematics Competition, 3rd Prize	2021

PUBLICATION

Su, Y., Zhang, T., Feng, J., Shi, Y., Yang, X. D., & Wu, T. Y. (2024, May). Tagnoo: Enabling Smart Room-Scale Environments with RFID-Augmented Plywood. *In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems* (pp. 1-18).

INTERNSHIP EXPERIENCE

Lenovo Research, Beijing

Jul. 2025-Sept. 2025

Internship - Human-centered Innovation Intelligence and Insights

- Focused on enabling large language models to generate personalized action plans grounded in user behaviors and preferences.
- Designed a reasoning framework with structured multimodal user modeling, improving retrieval efficiency and contextual coverage.
- Evaluated the framework in multiple tasks, showing its potential for adaptive human–AI collaboration.

RESEARCH EXPERIENCE

Learning Robot Skill Trajectories from Human Hand Videos (Course Project)

Mar. 2025 – Jun. 2025

Supervisor: Maj Stenmark (Lund University)

- Investigated cross-modal transfer of human hand trajectories to robotic platforms without teleoperation data.
- Built a token-level alignment framework (HPT-based) combining HaMeR-extracted 3D trajectories with simulated robot motion data.
- Demonstrated feasibility of learning new robotic skills directly from egocentric human video.

Real-time Posture Prediction with Resistive Pressure Mapping Devices (Bachelor Thesis) Oct. 2023

Supervisor: Xiaohui Cai (University of Science and Technology of China)

Oct. 2023 - Jun. 2024

Addressing the limitations of traditional pressure monitoring systems in healthcare, which often suffer from slow

- response and limited functionality.
- Developed 2D/3D posture recognition models (ResNet-50) integrated into a multi-threaded system with real-time visualization and rendering.
- Achieved stable and accurate posture detection (~ 15 FPS), supporting applications in patient monitoring and smart hospital environments.

Tagnoo: Enabling Smart Room-Scale Environments with RFID-Augmented Plywood Jul. 2023 – Sept. 2023

Supervisor: Xingdong Yang (Simon Fraser University), Te-yen Wu (Florida State University)

- Investigated embedding RFID in plywood for unobtrusive activity sensing, a response to the lack of low-cost scalable smart environments.
- Contributed to system implementation by developing data collection pipelines and CNN-based recognition models, and conducting user studies in real office settings.
- Achieved over 90\% accuracy; co-authored publication accepted at CHI 2024.

Lamp Based Smart Home Hub (Group Leader)

Jul. 2023

NUS School of Computing Summer Workshop

- Proposed and led a project on designing a smart lamp system that adapts lighting to user activities and environment in home-office scenarios.
- Designed the overall system architecture, integrating camera-based activity recognition with Raspberry Pi and detecting the environment with multiple sensors, supervised team members in implementation and integration.
- Awarded **3rd Prize** (**Top 3/11**) in the final demonstration.

RESEARCH SKILLS

- Tool/Platforms: Linux, ROS, Git, Raspberry Pi, Jenkins
- Programming Language: Python, Matlab, C