# Kuansheng Chen

# **EDUCATION**

## University of Illinois Urbana-Champaign, Urbana, Illinois

Aug. 2023 – Jun. 2024

Exchange student in Computer Science

# National Chiao Tung University, Hsinchu, Taiwan

Sept. 2019 - Jun. 2024

Bachelor of Science in Computer Science Advisor: Yen-Yu Lin and Chien-Yao Wang

#### RESEARCH INTERESTS

My research interests lie in **object detection** and **object tracking**. I enjoy solving real-world problems such as building detectors that can successfully detect both known and unknown class objects. I am currently working on Open World Object Detection that enable detectors to discover novel objects in an incremental learning fashion.

### RESEARCH EXPERIENCES

## NCTU - Vision and Learning Lab

Sep. 2022 - PRESENT

Research Assistant.

Advisor: Yen-Yu Lin, Distinguished Professor at NCTU

Co-advisor: Chien-Yao Wang, Research Fellow at Academia Sinica

Research Project: Open World Object Detection

- Developed OWOD frameworks that can discover unknown objects without unknown supervision and successfully differentiate known and unknown class objects.
- Incorporated end-to-end Transformer architecture and Out-of-Distribution detection techniques to incrementally discover novel objects.

#### NCTU - Individual Study

Sep. 2021 - Jun. 2022

Research student

Research Project: Near Real-Time Badminton Pose Analysis System

- · Integrated camera system, MQTT service, image analysis, and body pose evaluation algorithms.
- Developed pose analysis algorithm by applying OpenCV and Google MediaPipe.

### AWARDS & HONORS

•	Outstanding Exchange Student Scholarship, NCTU, Taiwan	2023
•	Academic Achievement Award, NCTU, Taiwan	2021

#### **Courses**

• Pattern Recognition (Graduate Level), Artificial Intelligence (Graduate Level)	2023
• Image Processing (Graduate Level), Machine Learning, Natural Language Processing	2022
• Computer Vision for UAV Autopilot, Numerical Methods, Artificial Intelligence Capstone	2022