

# Kuan-Sheng Chen

## EDUCATION

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**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

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My research interests lie within computer vision and deep learning. I am now working on Open World Object Detection (OWOD). My goal is to design a detector that can discover unlabeled unknown objects during training and incrementally learn more unknown classes without supervision.

## RESEARCH EXPERIENCES

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**NCTU – Vision and Learning Lab**

*Sep. 2022 - PRESENT*

*Research Assistant.*

Advisor: Yen-Yu Lin, 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 unlabeled unknown objects without unknown supervision and, in the meantime, preserves the performance of known classes.

**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

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

## Courses

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- 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*