



HAO-WEI CHEN

 <https://jaroslaw1007.github.io>

 jaroslaw1007@gapp.nthu.edu.tw

Education

National Tsing-Hua University (NTHU)
B.S. in Computer Science

Taiwan, Hsinchu
Sep. 2015 - Jun. 2019

National Tsing-Hua University (NTHU)
M.S. in Computer Science

Taiwan, Hsinchu
Sep. 2019 - Aug. 2022

Advisor: Chun-Yi Lee [[link](#)]

Thesis: Pixel-Wise Prediction based Visual Odometry via Uncertainty Estimation

Research Interests

- Computer Vision for Robotics
- Low-Level Vision

Publications

H.-W. Chen, Y.-S. Xu, M.-F. Hong, Y.-M. Tsai, H.-K. Kuo, and C.-Y. Lee “Cascaded Local Implicit Transformer for Arbitrary-Scale Super-Resolution”, *Accepted by IEEE/CVF Computer Vision and Pattern Recognition (CVPR)*, Jun. 2023.

H.-W. Chen, T.-H. Liao, H.-K. Yang, and C.-Y. Lee, “Pixel-Wise Prediction based Visual Odometry via Uncertainty Estimation”, *In Proc. IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, Jan. 2023. [[paper](#)][[code](#)]

M.-F. Hong, S.-S. Lin, **H.-W. Chen**, and C.-Y. Lee, “Toward a Reasonable Candidate Operation Selection for Differentiable Architecture Search”, *In Proc. IEEE Conf. Computer Vision and Pattern Recognition (CVPR) NAS workshop*, Jun. 2020. [[paper](#)]

Work Experience

ELSA Laboratory, National Tsing-Hua University [[page](#)][[medium](#)]

Research Assistant

Taiwan, Hsinchu
May. 2021 - Jun. 2022

- Responsible for writing medium articles of the publications from the laboratory.
- Promote the laboratory to more people on Facebook, Reddit, and Twitter.

MediaTek. Inc.

Research Intern

Taiwan, Hsinchu
Jul. 2022 - Present

- Work on the image super-resolution (SR) task and write research papers.

Teaching Experience

National Tsing-Hua University

Teaching Assistant

Taiwan, Hsinchu

- Deep Reinforcement Learning (NTHU CS 565700)
- Machine Learning, Deep Learning, and Computer Vision Study Group

2021 Fall
Jun. 2019 - Oct. 2020

Honors & Awards

Dean’s List Award (for the top 3 in the class)

2018 Spring

IROS Travel Award

Nov. 2022

Google East Asia Conference Scholarships

Jan. 2023

Professional Skills

- Programming: C++, Python (Tensorflow, PyTorch), MATLAB
- Operating System: Windows, Linux, Ubuntu
- Languages: Chinese (native speaker), English (professional working proficiency)