

Ting Hsuan Liao

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“The only stupid question is the one you were afraid to ask but never did.”

Education

National Tsing Hua University

B.S. IN COMPUTER SCIENCE

Overall GPA: 4.17 / 4.30, cumulative ranking: 10/180, Major GPA: 4.26 / 4.30

Hsinchu, Taiwan

Sept. 2018 ~ June 2022

University of Maryland

PH.D IN COMPUTER SCIENCE

Working with Prof. [Jia-Bin Huang](#) in CVLab.

College Park, US

Sept. 2022 ~ June 2027 (exp.)

Research Experience

ELDA: Using Edges to Have an Edge on Semantic Segmentation Based UDA

- **Ting-Hsuan Liao**, Huang-Ru Liao, Shan-Ya Yang, Jie-En Yao, Li-Yuan Tsao, Hsu-Shen Liu, Chen-Hao Chao, Bo-Wun Cheng, Chia-Che Chang, Yi-Chen Lo, Chun-Yi Lee, in *British Machine Vision Conference (BMVC, 2022)*.

Investigation of Factorized Optical Flows as Mid-Level Representations

- Hsuan-Kung Yang, Tsu-Ching Hsiao, **Ting-Hsuan Liao**, Hsu-Shen Liu, Li-Yuan Tsao, Tzu-Wen Wang, Shan-Ya Yang, Yu-Wen Chen, Huang-Ru Liao, Chun-Yi Lee, in *International Conference on Intelligent Robots and Systems (IROS, 2022)*.

Pixel-Wise Prediction based Visual Odometry via Uncertainty Estimation

- Hao-Wei Chen, **Ting-Hsuan Liao**, Hsuan-Kung Yang, Chun-Yi Lee, in *Winter Conference on Applications of Computer Vision (WACV, 2023)*.

Sim-to-Real: Autonomous Driving with Unsupervised Domain Adaptation

- Demo website: [Sim-to-Real](#)

Honors & Awards

2022	Dean's Fellowship for Incoming Ph.D Student of University of Maryland,
2021	Computer Science Senior Project Contest - Finalists , 12 out of 77 teams
2021	National Scholarship of Pan Wen-Yuan Foundation , 12 out of the country
2021	Interscholastic Innovation Game Design Competition - Best Presentation , 1 out of 42 teams
2021-2019	(2022 Spring / 2021 Spring / 2020 Fall / 2020 Spring / 2019 Spring) Academic Excellence Award , top 5% of class
2021	Scholarship for EECS Excellent Students , 6 out of 144 students

Experience

Introduction to Data Science Course at University of Maryland | Teaching Assistant

Fall 2020 and Fall 2021

- Grade lab assignments and exam, and address students' questions.

ELSA Lab at National Tsing Hua University | Undergraduate Research Assistant

Spring 2020 ~ Spring 2022

- Conduct research toward Computer Vision (CV) and Reinforcement Learning (RL).

Logic Design Laboratory Course at National Tsing Hua University | Teaching Assistant

Fall 2020 and Fall 2021

- Design lab assignments for course usage and address students' questions.

National Tsing Hua University | Academic Counselor

Spring 2021

- Provide academic support to students that have difficulty of learning.

Skills

Language: Mandarin (native), English (proficient)

Programming: C/C++, C#, Python, Verilog, Java, Golang, Javascript

Machine learning: Tensorflow, Keras, Pytorch, SciPy, Scikit-Learn, Matplotlib