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   *Hsinchu, Taiwan*

B.S. IN COMPUTER SCIENCE   *Sept. 2018 ∼ June 2022*

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

University of Maryland   *College Park, US*

PH.D IN COMPUTER SCIENCE   *Sept. 2022 ∼ June 2027 (exp.)*

Working with Prof. Jia-Bin Huang in CVLab.

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