Ting-Hsuan **Liao**

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Education _____

University of Maryland

College Park, US

Ph.D in Computer Science

09/2022 - 11/2026 (exp.)

Advisor: Prof. Jia-Bin Huang Overall GPA: 4.0 / 4.0

National Tsing Hua University

Hsinchu, Taiwan

2018 - 2022

B.S. IN COMPUTER SCIENCE

Advisor: Prof. Chun-Yi Lee

Overall GPA: 4.17 / 4.30, cumulative ranking: 9/142

Experience _____

Adobe Research | Research Intern

May 2024 - Nov. 2024

Mentor: Uttaran Bhattacharya

Propose framework for shape-aware text to human motion generation. (CVPR 2025)

Intel Corporation | Research Intern

June 2023 - Dec. 2023

Mentor: Ilke Demir

Design new algorithms for texture synthesis for 3D scene.

ELSA Lab at National Tsing Hua University | Research Assistant

2020 - 2022

Mentors: Chun-Yi Lee

Conduct research toward CV and RL. (BMVC 2022, CVPRW 2022, IROS 2022)

Publications_____

PAD3R: Pose-Aware Dynamic 3D Reconstruction from Casual Videos

- Ting-Hsuan Liao*, Haowen Liu*, Yiran Xu, Songwei Ge, Gengshan Yang, Jia-Bin Huang.
- SIGGRAPH Asia 2025 (Conference track)

website

Bridging Diffusion Models and 3D Representations: A 3D Consistent Super-Resolution Framework

- Yi-Ting Chen, Ting-Hsuan Liao, Pengsheng Guo, Alex Schwing, Jia-Bin Huang.
- ICCV 2025

P pdf

Shape My Moves: Text-Driven Shape-Aware Synthesis of Human Motions

- Ting-Hsuan Liao, Yi Zhou, Yu Shen, Chun-Hao Paul Huang, Saayan Mitra, Jia-Bin Huang, Uttaran Bhattacharya.
- CVPR 2025

pdf, website

VividDream: Generating 3D Scene with Ambient Dynamics

- Yao-Chih Lee, Yi-Ting Chen, Andrew Wang, Ting-Hsuan Liao, Brandon Y. Feng, Jia-Bin Huang.
- · arXiv preprint

pdf, website

Text-driven Visual Synthesis with Latent Diffusion Prior

- Ting-Hsuan Liao, Songwei Ge, Yiran Xu, Yao-Chih Lee, Badour AlBahar, Jia-Bin Huang.
- · arXiv preprint

pdf, website

Pixel-Wise Prediction based Visual Odometry via Uncertainty Estimation

- Hao-Wei Chen, Ting-Hsuan Liao, Hsuan-Kung Yang, Chun-Yi Lee.
- WACV 2023

pdf

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.
- BMVC 2022, CVPRW 2022

pdf

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.
- IROS 2022

pdf

Honors & Awards_

2022	Dean's Fellowship for	Incoming Ph.D	Student of Universit	y of Maryland,

2019-2022 Academic Achievement Award (Five times), top 5% of class

2021 Computer Science Senior Project Contest - Finalists, 12 out of 77 teams 2021 National Scholarship of Pan Wen-Yuan Foundation, 12 out of the nation

2021 Scholarship for EECS Excellent Students, 6 out of 144 students

Service_

2025 **Reviewer, CVPR, CVPRW, ICCV, SIGGRAPH Asia, TPAMI**

2024 **Reviewer,** CVPR, ECCV

2023 **Reviewer**, CVPR 2022 **Reviewer**, ECCV

Teaching_____

Multimodal Foundation Models at UMD

Fall 2025

Teaching Assistant

Computer Vision at UMD

 $Spring\ 2024$

Teaching Assistant

Discrete Structures at UMD

Fall 2023

Teaching Assistant

Introduction to Data Science at UMD

 $Fall\ 2022\ and\ Spring\ 2023$

Teaching Assistant

Logic Design Laboratory at NTHU

Fall 2020 and Fall 2021

Teaching Assistant

National Tsing Hua University

Spring 2021

Academic Counselor