Ting-Hsuan **Liao**

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Education ____

University of Maryland

College Park, US

Ph.D in Computer Science

Sept. $2022 \sim June\ 2027\ (exp.)$

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

National Tsing Hua University

Hsinchu, Taiwan

B.S. IN COMPUTER SCIENCE

Sept. $2018 \sim June\ 2022$

Advisor: Prof. Chun-Yi Lee

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

Experience_____

Adobe Research | Research Intern

May $2024 \sim Nov. 2024$

Mentor: Uttaran Bhattacharya

Design new algorithms for text to human motion generation.

Intel Corporation | Research Intern

June $2023 \sim Dec. 2023$

Mentor: Ilke Demir

Design new algorithms for texture synthesis for 3D scene.

ELSA Lab at National Tsing Hua University | Research Assistant

Spring $2020 \sim Spring 2022$

Mentors: Chun-Yi Lee

Conduct research toward Computer Vision (CV) and Reinforcement Learning (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)

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

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 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
2021-2019	Academic Achievement Award (Five times) , top 5% of class
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