

Tsai-Shien Chen

[✉ tsaishienchen@gmail.com](mailto:tsaishienchen@gmail.com) | [🏡 tsaishien-chen.github.io](https://tsaishien-chen.github.io) | [@tsaishien_chen](https://twitter.com/tsaishien_chen) | [👤 Tsai-Shien Chen](https://orcid.org/0000-0002-1111-1111)

Education

University of California, Merced

Merced, CA

Ph.D. CANDIDATE IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Sep. 2022 - Now

- Advised by [Ming-Hsuan Yang](#)

• GPA: 4.00 / 4.00

National Taiwan University

Taipei, Taiwan

M.S. IN ELECTRONICS ENGINEERING

Sep. 2019 - March 2022

- Advised by [Shao-Yi Chien](#)

• GPA: 4.30 / 4.30; Rank: 1st / 128

B.S. IN ELECTRICAL ENGINEERING

Sep. 2015 - June 2019

• GPA: 4.23 / 4.30; Rank: 5th / 190

Research Interests

- Video Generation: Dataset, Foundation model, and Application
- Multimodal Large Language Model
- Compositional and Personalized Content Creation

Honors & Awards

2025	Google PhD Fellowship , Google
2024	CVPR Highlight Paper , CVPR Program Committee
2024	Graduate Student Opportunity Program Fellowship (full tuition) , UC Merced
2024	CVPR Travel Grant , CVPR Organizing Committee
2023	Best Master Thesis of the Year Award , Graduate Institute of Electronics Engineering, NTU
2022	Honorary Member (top 2% in college) , Phi Tau Phi Scholastic Honor Society
2020	ECCV Oral Paper , ECCV Program Committee
2019	Valedictorian , Department of Electrical Engineering, NTU
2015-2019	4-time Presidential Award (top 5% in department) , NTU

Work Experiences

Snap Inc.

Santa Monica, CA

RESEARCH INTERN AT CREATIVE VISION TEAM

May 2023 - Now

- Worked with [Aliaksandr Siarohin](#), [Sergey Tulyakov](#), [Jun-Yan Zhu](#), and [Kfir Aberman](#).
- Worked on large-scale video dataset and video captioning, generation, and personalization models.
- Published four papers with one in CVPR 2025, one in EMNLP 2024, and two in CVPR 2024.

Publications

Conference Proceedings

1. Multi-subject Open-set Personalization in Video Generation [Paper] [Website]

Tsai-Shien Chen, Aliaksandr Siarohin, Willi Menapace, Yuwei Fang, Kwot Sin Lee, Ivan Skorokhodov, Kfir Aberman, Jun-Yan Zhu, Ming-Hsuan Yang, Sergey Tulyakov
CVPR 2025

2. VIMI: Grounding Video Generation through Multi-modal Instruction [Paper] [Website]

Yuwei Fang, Willi Menapace, Aliaksandr Siarohin, **Tsai-Shien Chen**, Kuan-Chien Wang, Ivan Skorokhodov, Graham Neubig, Sergey Tulyakov
EMNLP 2024 [Main Conference]

3. Panda-70M: Captioning 70M Videos with Multiple Cross-Modality Teachers [Paper] [Website]

Tsai-Shien Chen, Aliaksandr Siarohin, Willi Menapace, Ekaterina Deyneka, Hsiang-wei Chao, Byung Eun Jeon, Yuwei Fang, Hsin-Ying Lee, Jian Ren, Ming-Hsuan Yang, Sergey Tulyakov
CVPR 2024

4. **Snap Video: Scaled Spatiotemporal Transformers for Text-to-Video Synthesis** [Paper] [Website]
 Willi Menapace, Aliaksandr Siarohin, Ivan Skorokhodov, Ekaterina Deyneka, **Tsai-Shien Chen**, Anil Kag, Yuwei Fang, Aleksei Stoliar, Elisa Ricci, Jian Ren, Sergey Tulyakov
CVPR 2024 [**Highlight**, **2.8% acceptance rate**]
5. **Incremental False Negative Detection for Contrastive Learning** [Paper]
Tsai-Shien Chen, Wei-Chih Hung, Hung-Yu Tseng, Shao-Yi Chien, Ming-Hsuan Yang
ICLR 2022
6. **Hard Samples Rectification for Unsupervised Cross-domain Person Re-identification** [Paper]
 Chih-Ting Liu, Man-Yu Lee, **Tsai-Shien Chen**, Shao-Yi Chien
ICIP 2021
7. **Tracklet-Refined Multi-Camera Tracking Based on Balanced Cross-Domain Re-Identification for Vehicles** [Paper]
 Kai-Siang Yang, Yu-Kai Chen, **Tsai-Shien Chen**, Chih-Ting Liu, Shao-Yi Chien
CVPR Workshops 2021
8. **Orientation-aware Vehicle Re-identification with Semantics-guided Part Attention Network** [Paper] [Website]
Tsai-Shien Chen, Chih-Ting Liu, Chih-Wei Wu, Shao-Yi Chien
ECCV 2020 [**Oral**, **2.1% acceptance rate**]
9. **Viewpoint-Aware Channel-Wise Attentive Network for Vehicle Re-Identification** [Paper]
Tsai-Shien Chen, Man-Yu Lee, Chih-Ting Liu, Shao-Yi Chien
CVPR Workshops 2020
10. **Supervised Joint Domain Learning for Vehicle Re-Identification** [Paper]
 Chih-Ting Liu, Man-Yu Lee, Chih-Wei Wu, Bo-Ying Chen, **Tsai-Shien Chen**, Yao-Ting Hsu, Shao-Yi Chien
CVPR Workshops 2019

Pre-prints

1. **Omni-Attribute: Open-vocabulary Attribute Encoder for Visual Concept Personalization** [Paper] [Website]
Tsai-Shien Chen, Aliaksandr Siarohin, Guocheng Gordon Qian, Kuan-Chieh Jackson Wang, Egor Nemchinov, Moayed Haji-Ali, Riza Alp Guler, Willi Menapace, Ivan Skorokhodov, Anil Kag, Jun-Yan Zhu, Sergey Tulyakov
arXiv preprint 2025
2. **Canvas-to-Image: Compositional Image Generation with Multimodal Controls** [Paper] [Website]
 Yusuf Dalva, Guocheng Gordon Qian, Maya Goldenberg, **Tsai-Shien Chen**, Kfir Aberman, Sergey Tulyakov, Pinar Yanardag, Kuan-Chieh Jackson Wang
arXiv preprint 2025
3. **LayerComposer: Multi-Human Personalized Generation via Layered Canvas** [Paper] [Website]
 Guocheng Gordon Qian, Ruihang Zhang, **Tsai-Shien Chen**, Yusuf Dalva, Anujraaj Argo Goyal, Willi Menapace, Ivan Skorokhodov, Meng Dong, Arpit Sahni, Daniil Ostashev, Ju Hu, Sergey Tulyakov, Kuan-Chieh Jackson Wang
arXiv preprint 2025
4. **Motion-Conditioned Diffusion Model for Controllable Video Synthesis** [Paper] [Website]
Tsai-Shien Chen, Chieh Hubert Lin, Hung-Yu Tseng, Tsung-Yi Lin, Ming-Hsuan Yang
arXiv preprint 2023

Patents

1. **Captioning Videos with Multiple Cross-Modality Teachers** [Link]
Tsai-Shien Chen, Yuwei Fang, Hsin-Ying Lee, Jian Ren, Aliaksandr Siarohin, Sergey Tulyakov
US 2025/0247586 A1
2. **Scaled Spatiotemporal Transformers for Text-to-Video Synthesis** [Link]
Tsai-Shien Chen, Yuwei Fang, Anil Kag, Willi Menapace, Jian Ren, Aliaksandr Siarohin, Ivan Skorokhodov, Sergey Tulyakov
US 2025/0245897 A1

Professional Activities

- Program Committee - **AAAI**: 2026
- Conference Reviewer - **CVPR**: 2022 - 2026; **ICCV**: 2021 - 2025; **ECCV**: 2022 - 2024; **WACV**: 2026
- **NeurIPS**: 2023 - 2025; **ICLR**: 2024 - 2026; **ICML**: 2024 - 2025
- **ACMMM**: 2025
- Journal Reviewer - IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**)
- IEEE Transactions on Image Processing (**TIP**)
- International Journal of Computer Vision (**IJCV**)
- Teaching Assistant - UC Merced: CSE-185 **Introduction to Computer Vision** (Spring 2023)
- UC Merced: CSE-024 **Advanced Programming** (Fall 2022)
- NTU: EEE-5053 **Computer Vision** (Spring 2021)