

Tsai-Shien Chen

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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 models, and Application models
- Multimodal Large Language Model
- Personalized Content Creation

Honors & Awards

- 2024 **CVPR Highlight Paper (2.8% acceptance rate)**, CVPR Program Committee
- 2024 **Graduate Student Opportunity Program Fellowship (one-year funded fellowship)**, 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 (2.1% acceptance rate)**, 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]**
5. **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 2023
6. **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
7. **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
8. **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
9. **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]**
10. **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
11. **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

Patents

1. **Captioning Videos with Multiple Cross-Modality Teachers** [\[Document\]](#)
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** [\[Document\]](#)
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	- Association for the Advancement of Artificial Intelligence (AAAI): 2026
Conference Reviewer	- Conference on Computer Vision and Pattern Recognition (CVPR): 2022, 2023, 2024, 2025 - International Conference on Computer Vision (ICCV): 2021, 2023, 2025 - European Conference on Computer Vision (ECCV): 2022, 2024 - Winter Conference on Applications of Computer Vision (WACV): 2026 - Conference on Neural Information Processing Systems (NeurIPS): 2023, 2024, 2025 - International Conference on Learning Representations (ICLR): 2024, 2025 - International Conference on Machine Learning (ICML): 2024, 2025 - ACM Multimedia (ACMMM): 2025
Journal Reviewer	- International Journal of Computer Vision (IJCV) - IEEE Transactions on Image Processing (TIP) - Neurocomputing (Neucom)
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)