

# Tsai-Shien Chen

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## Education

### University of California, Merced

Merced, CA

#### PH.D. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Aug. 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, Architecture, and Applications
- Vision-Language Models
- Image Animation

## Publications List

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 preprint, 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*

## Work Experiences

### Research Intern at Snap Inc.

*Santa Monica, CA*

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

*May 2023 - Now*

### Visiting Researcher at UC Merced

*Virtual*

- Work with [Ming-Hsuan Yang](#) and [Hung-Yu Tseng](#).
- Work on contrastive learning algorithm for representation learning.
- Publish one paper in ICLR 2022.

*Dec. 2020 - May 2021*

## Honors & Awards

- 2024 **CVPR Highlight Paper (2.8% acceptance rate)**, CVPR Program Committee
- 2024 **Graduate Student Opportunity Program Fellowship (2 awardees annually in university)**, 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

## Professional Activities

- Program Committee - Association for the Advancement of Artificial Intelligence (**AAAI**): 2025
- 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
- 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 - IEEE Transactions on Intelligent Transportation Systems (**T-ITS**)
- Neurocomputing
- 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)