

Feng (Jeff) Liang

Homepage

Google Scholar

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EDUCATION

- **The University of Texas at Austin** Austin, United States
Ph.D. of ECE, advised by Prof. Diana Marculescu Aug. 2021 – Feb. 2025
- **Tsinghua University** Beijing, China
M.Eng of EE Sept. 2016 – Jun. 2019
- **Huazhong University of Science and Technology** Wuhan, China
B.Eng of EE Sept. 2012 – Jun. 2016

RESEARCH INTERESTS

- Efficient AI: Scalable learning/inference under data, compute, and energy constraints.
- Personalized AI: Developing privacy-preserving, user- and context-adaptive models.
- Creative AI: Empowering human creativity via controllable multimodal generation and understanding.

INDUSTRIAL EXPERIENCE

- **Meta Superintelligence Lab** Menlo Park, United States
Senior Research Scientist April 2025 – Present
 - Working on Meta’s next-generation media foundation models.
- **Meta Generative AI / Reality Labs** Menlo Park, United States
Research Scientist Intern May 2022 – Nov. 2024
 - Published a paper in CVPR’25 on multi-concept video personalization (Movie Weaver), extending Meta’s MovieGen video generation model to multi-concept personalization!
 - Published two papers in CVPR’24 on efficient video-to-video synthesis (FlowVid and Fairy), achieving state-of-the-art results with significantly faster processing speeds. Published follow-up work StreamV2V in ICLR’25, enabling real-time video-to-video for stream input.
 - Published a paper in CVPR’23 on Open-Vocabulary Segmentation (OVSeg), which ranked in the top 2% most influential papers, ranking #28 among 2,359 accepted papers.
- **SenseTime Research** Beijing, China
AI Researcher Jun. 2019 – Aug. 2021
 - Published a paper in ICLR’22 on Data-Efficient CLIP (DeCLIP), which ranked in the top 2% most influential papers, ranking #14 among 945 accepted papers.

FIRST (INCLUDING CO-FIRST) AUTHOR PUBLICATIONS

Authored **20+** top-tier publications with **2,000+** citations. See full publications on Google Scholar.

- “Movie Weaver: Tuning-Free Multi-Concept Video Personalization with Anchored Prompts” **Feng Liang**, Haoyu Ma, Zecheng He, Tingbo Hou, Ji Hou, Kunpeng Li, Xiaoliang Dai, Felix Juefei-Xu, Samaneh Azadi, Animesh Sinha, Peizhao Zhang, Peter Vajda, Diana Marculescu. **CVPR 2025. Multi-concept personalization for Meta’s video foundation model MovieGen.**
- “Looking Backward: Streaming Video-to-Video Translation with Feature Banks” **Feng Liang**, Akio Kodaira, Chenfeng Xu, Masayoshi Tomizuka, Kurt Keutzer, Diana Marculescu. **ICLR 2025. One of the first works to do real-time video-to-video translation with streaming input.**
- “FlowVid: Taming Imperfect Optical Flows for Consistent Video-to-Video Generation” **Feng Liang**, Bichen Wu, Jialiang Wang, Licheng Yu, Kunpeng Li, Yinan Zhao, Ishan Misra, Jia-Bin Huang, Peizhao Zhang, Peter Vajda, Diana Marculescu. **CVPR 2024. Highlight (Top 10% accepted papers).**

- “Open-Vocabulary Semantic Segmentation with Mask-adapted CLIP” **Feng Liang**, Bichen Wu, Xiaoliang Dai, Kunpeng Li, Yinan Zhao, Hang Zhang, Peizhao Zhang, Peter Vajda, Diana Marculescu. **CVPR 2023**. **Top 2% most influential papers (#28 of 2,359 accepted paper)**.
- “Supervision Exists Everywhere: A Data Efficient Contrastive Language-Image Pre-training Paradigm” Yangguang Li*, **Feng Liang***, Lichen Zhao*, Yufeng Cui, Wanli Ouyang, Jing Shao, Fengwei Yu, Junjie Yan. **ICLR 2022**. **Top 3% most influential papers (#14 of 945 accepted paper)**.
- “SupMAE: Supervised Masked Autoencoders Are Efficient Vision Learners” **Feng Liang**, Yangguang Li, Diana Marculescu. **AAAI-EIW 2024**. **Best Poster Award**.
- “ANT: Adapt Network Across Time for Efficient Video Processing” **Feng Liang**, Ting-Wu Chin, Yang Zhou, Diana Marculescu. **CVPRW-ECV 2022**.
- “ScaleNAS: One-Shot Learning of Scale-Aware Representations for Visual Recognition” Hsin-Pai Cheng*, **Feng Liang***, Meng Li, Bowen Cheng, Vikas Chandra, Feng Yan, Hai Li, Yiran Chen. **AutoML-Conf 2022**.
- “Computation Reallocation for Object Detection” **Feng Liang**, Chen Lin, Ronghao Guo, Ming Sun, Wei Wu, Junjie Yan, Wanli Ouyang. **ICLR 2020**.

* indicates equal contributions.

SELECTED HONORS & AWARDS

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| • MLCommons ML and Systems Rising Stars | MLCommons; 2024 |
| • Qualcomm Innovation Fellowship Finalist | Qualcomm; 2024 |
| • UT Austin Engineering Fellowship | UT Austin; 2021 & 2023 |
| • Excellent Student Leader | Tsinghua University; 2018 |
| • National Scholarship | Ministry of Education; 2014 & 2015 |

MEDIA COVERAGE

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|---|--|
| • National College Students AI Competition – Championship in Big Data Tech.
<i>Tsinghua University, Team Leader</i> | Guangdong, China
<i>Jan. 2018 – Apr. 2018</i> |
| • Junction 2018 - Challenge Winner in Intelligent Infrastructure Track
<i>Tsinghua University, Vision Developer</i> | Helsinki, Finland
<i>Nov. 2018</i> |

MENTORING

- **Yang Zhou** – Undergraduate @ UT Austin → Ph.D. student @ CMU ECE (current).
- **Grace Kim** – Undergraduate @ UT Austin → Ph.D. student @ UPenn CIS (current).
- **Dennis Menn** – Ph.D. student @ UT Austin ECE (current).

ADDITIONAL INFORMATION

- **Leadership:** President of Graduate Union of the Department of Microelectronics and Nanoelectronics at Tsinghua University(2017-2018)