Feng (Jeff) Liang

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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 – Mar. 2025 (exp.)*
- **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

- Generative AI: Efficient video-to-video synthesis, personalized video generation.
- Vision-Language Models: Open-world perception models, multimodal LLMs.

Industrial Experience

- **Meta Generative AI (Llama Applied)** — Menlo Park, United States
  Research Scientist Intern; Work with Dr.Peizhao Zhang — *May 2024 – Present*
  - Actively developing the personalization capability for Meta GenAI's video generation model.
- **Meta Generative AI (Media Foundation)** — Menlo Park, United States
  Research Scientist Intern; Work with Dr.Bichen Wu — *May 2023 – Dec. 2023*
  - 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.
  - Conducted follow-up work on StreamV2V, enabling real-time video-to-video synthesis for stream input.
- **Meta Reality Labs (Mobile Vision)** — Burlingame, United States
  Research Scientist Intern; Work with Dr.Bichen Wu — *May 2022 – Dec. 2022*
  - Published a paper in CVPR'23 on Open-Vocabulary Segmentation (OVSeg), which ranked in the top 2% most influential papers among 2,359 accepted papers.
- **SenseTime Research** — Beijing, China
  Researcher; Work with Prof.Wanli Ouyang — *Jun. 2019 – Aug. 2021*
  - Published a paper in ICLR'22 on Data-Efficient CLIP (DeCLIP), which ranked in the top 3% most influential papers among 945 accepted papers.

Selected Publications

Authored **19** top-tier publications with over **1,000** citations. See full publications on Google scholar

- "Looking Backward: Streaming Video-to-Video Translation with Feature Banks" **Feng Liang**, Akio Kodaira, Chenfeng Xu, Masayoshi Tomizuka, Kurt Keutzer, Diana Marculescu. **Manuscript. >380 GitHub stars**
- "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'24, 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'23, Top 2% most influential papers.**
- "SupMAE: Supervised Masked Autoencoders Are Efficient Vision Learners" **Feng Liang**, Yangguang Li, Diana Marculescu. **AAAI-EIW'24, Best Poster Award.**
- "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'22, Top 3% most influential papers.**

***indicates equal contributions.

AI Competitions

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

Selected Honors & Awards

- **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

Additional Information

- **English Proficiency**: TOEFL iBT: 110 (R30 L30 S23 W27)
- **Programming Skills**: Python(proficient), C++(familiar), C(basic)
- **Deep Learning Framework**: Pytorch(proficient), TensorFlow(familiar), Caffe(basic)
- **Leadership**: President of Graduate Union of the Department of Microelectronics and Nanoelectronics at Tsinghua University(2017-2018)