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 – 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.

- **AI for Creativity**: Empowering human creativity via controllable multimodal generation.

INDUSTRIAL EXPERIENCE

- **Meta Superintelligence Lab** — Menlo Park, United States
  Senior Research Scientist — *April 2025 – Present*
  - Core contributor to Meta's first personalized image-editing model; led development of the Remix feature (FaceSwap and Insert-Me) deployed across Meta AI Vibes and other surfaces.
  - Full-cycle owner of Remix (FaceSwap and Insert-Me), covering data strategy (midtraining + SFT curation), modeling, and evaluation.

- **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 **2,500+** 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

- **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

Press Coverage

Texas ECE News: Texas ECE Student and Postdoc Named MLCommons Rising Stars	2024
Tsinghua University News: National College AI Competition – Championship in Big Data Tech Track	2018
Tsinghua University News: Junction 2018 – Challenge Winner in Intelligent Infrastructure Track	2018

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)