Tianrui Feng

✉ Email | ⌂ Homepage | GitHub | 🎓 Google Scholar

Wuhan, China

EDUCATION

- **Huazhong University of Science and Technology** *Sep 2022 - Jun 2026 (expected)*
  B.Eng. in Artificial Intelligence Wuhan, China
  - **Advisor**: Prof. Xiang Bai
  - **GPA**: 87.5/100.0

PUBLICATIONS
*EQUAL CONTRIBUTION † CORRESPONDING AUTHOR

- **StreamDiffusionV2: A Streaming System for Dynamic and Interactive Video Generation**   📄 *Paper*
  Under Review as a Conference Paper
  Tianrui Feng, Zhi Li, Shuo Yang, Haocheng Xi, Muyang Li, Xiuyu Li, Lvmin Zhang, Keting Yang, Kelly Peng, Song Han, Maneesh Agrawala, Kurt Keutzer, Akio Kodaira, Chenfeng Xu†

- **Parameter-Efficient Fine-Tuning in Spectral Domain for Point Cloud Learning**   📄 *Paper*
  IEEE Transactions on Pattern Analysis and Machine Intelligence
  Dingkang Liang*, **Tianrui Feng***, Xin Zhou*, Yumeng Zhang, Zhikang Zou, Xiang Bai†

- **Less is Enough: Training-Free Video Diffusion Acceleration via Runtime-Adaptive Caching**   📄 *Paper*
  Under Review as a Journal Paper
  Xin Zhou*, Dingkang Liang*, Kaijin Chen, **Tianrui Feng**, Xiwu Chen, Hongkai Lin, Yikang Ding, Feiyang Tan, Hengshuang Zhao, Xiang Bai†

- **Seeing the Future, Perceiving the Future: A Unified Driving World Model for Future**   📄 *Paper*
  Generation and Perception
  Under Review as a Journal Paper
  Dingkang Liang*, Dingyuan Zhang*, Xin Zhou*, Sifan Tu, **Tianrui Feng**, Xiaofan Li, Yumeng Zhang, Mingyang Du, Xiao Tan, Xiang Bai†

RESEARCH EXPERIENCE

- **BAIR, University of California, Berkeley** *Jun 2025 - Aug 2025*
  Research Intern
  - **Advisor**: Chenfeng Xu (Ph.D., UC Berkeley; Assistant Professor at UT Austin)
  - **Research Topics**: Efficient Machine Learning, Generative Models, AI Systems
  - **Publications**: StreamDiffusionV2 (Under Review)

- **VLRLab, Huazhong University of Science and Technology (HUST)** *Jun 2023 - Current*
  Research Intern
  - **Advisor**: Xiang Bai (Professor and Dean of the School of Software Engineering at HUST)
  - **Research Topics**: Efficient Machine Learning, 3D Vision, Generative Models, Multi-modality Learning
  - **Publications**: PointGST (Accepted by TPAMI), EasyCache (Under Review)

HONORS AND AWARDS

- **Undergraduate Natural Science Innovation Fund (Top 0.1%, ~$7,000), Project Lead** *Jun 2025*
  Huazhong University of Science and Technology

- **National Undergraduate Innovation Training Program (~$2,800), Project Lead** *May 2024*
  Huazhong University of Science and Technology

- **National Scholarship (Top 0.2%)** *Oct 2023*
  Huazhong University of Science and Technology

- **ICCV 2023, CVPPA Workshop challenge, Rank 6th** *Aug 2023*
  International Conference on Computer Vision Workshop, 2023