Tianrui Feng

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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

PUBLICATIONS
Equal Contribution † Corresponding Author

- **StreamDiffusionV2: A Streaming System for Dynamic and Interactive Video Generation** 📄 *Paper*
MLSys 2026
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 TPAMI 2025
Dingkang Liang*, **Tianrui Feng***, Xin Zhou*, Yumeng Zhang, Zhikang Zou, Xiang Bai†

- **A Unified Driving World Model for Future Scene Generation and Depth Estimation** 📄 *Paper*
IEEE ICRA 2026
Dingkang Liang*, Dingyuan Zhang*, Xin Zhou*, Sifan Tu, **Tianrui Feng**, Xiaofan Li, Yumeng Zhang, Mingyang Du, Xiao Tan, 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†

RESEARCH EXPERIENCE

- **BAIR, University of California, Berkeley** *Jun 2025 - Aug 2025*
Research Intern
  ◦ **Advisor**: Chenfeng Xu, Assistant Professor at UT Austin
  ◦ **Topics**: Efficient Machine Learning, Generative Models, AI Systems
  ◦ **Publications**: StreamDiffusionV2 (MLSys 2026)

- **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
  ◦ **Topics**: Efficient Machine Learning, 3D Vision, Generative Models, Multi-modality Learning
  ◦ **Publications**: PointGST (TPAMI 2025), Unifuture (ICRA 2026), 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