Feng Tianjian

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Education

Zhejiang University, China *Sep.2023 - May.2027 (expected)*

Bachelor of Computer Science; Cumulative GPA: 4.08/4.3 (Top 25%)

Research Interests

My research focuses on scaling and optimizing generative foundations across modalities. I am particularly interested in enhancing the spatial consistency, logical reasoning, and controllability of large-scale models (e.g., DiTs and DLMs) by innovating at the intersection of sampling-stage trajectory search and revisable latent representations. My goal is to develop high-fidelity, zero-shot generative frameworks that maintain structural and semantic integrity while enabling complex cross-modal manipulation.

Publications and Pre-prints

- *(Under review)* Y. Shen*, **T. Feng***, J. Han, W. Wang, T. Chen, C. Shen, J. Leskovec, and S. Ermon. (2026). Improving Diffusion Language Model Decoding through Joint Search in Generation Order and Token Space.[paper] ** Equal contribution.*
- *(ICLR 2026)* C. Zhao, X. Li, **T. Feng**, Z. Zhao, H. Chen, and C. Shen. (2026). TINKER: Diffusion's Gift to 3D–Multi-View Consistent Editing From Sparse Inputs without Per-Scene Optimization. [paper] [project]
- *(Under review)* L. Zhong*, L. Wu*, B. Fang, **T. Feng**, C. Jing, W. Wang, J. Zhang, H. Chen, and C. Shen. (2026). Beyond Hard Masks: Progressive Token Evolution for Diffusion Language Models.[paper] [project]

Research Experiences

State Key Lab of CAD & CG, Zhejiang University 2024 – Present

Undergraduate Researcher (Advisor: Prof. Chunhua Shen, Research Prof. Hao Chen)

- **Efficient Decoding for Diffusion Language Models (DLM)**
  - **Spearheaded the technical implementation** of the Order-Token Search algorithm and its core likelihood estimator, ensuring efficient pruning and stable exploration across diverse decoding trajectories.
- **High-Fidelity 3D Content Generation and Editing**
  - Contributed to **TINKER**, a generalizable 3D editing framework that achieves state-of-the-art performance without per-scene optimization *(ICLR 2026)*.
  - Conducted **extensive benchmarking** to evaluate the framework's performance in one-shot and few-shot regimes, providing critical experimental evidence for model validation.
- **Video Representation and Compression** (Ongoing)
  - Investigating the synergy between Video Compression and Super-Resolution to extract robust semantic representations for reconstruction and super resolution.
- **Progressive Token Evolution for Diffusion Language Models**
  - Synthesized recent advances in continuous trajectory supervision and iterative probabilistic updates to establish a cohesive theoretical context for the proposed method.

Skills

Programming: Python, C++, Java, Verilog, Shell, LaTeX;

Frameworks: PyTorch, Verl.

Honors & Awards

Zhejiang University Academic Excellence Scholarship 2024, 2025

Awarded to the top 20% of students for outstanding academic and research performance.