

# XIAOFENG TAN

Shenzhen & Nanjing, China

[✉ xiaofengtan@seu.edu.cn](mailto:xiaofengtan@seu.edu.cn) · [📞 15015035501](tel:15015035501) · [🌐 Homepage](#) · [/github/xiaofengtan](#) GitHub

## RESEARCH INTERESTS

RLHF, RLVR, AIGC, 3D Human Modeling, Preference Optimization, Diffusion Models, Multimodal Learning.

## EDUCATION

<b>Southeast University (SEU)</b> , Nanjing, China M.Sc. in Computer Science <a href="#">PALM Lab</a> , supervised by Prof. <a href="#">Hongsong Wang</a> First-Class Academic Scholarship & Tencent Scholarship (top 1%); Summer Camp Rank 2	Sept 2024 – Present GPA: <b>88.6/100</b>
<b>Shenzhen University (SZU)</b> , Shenzhen, China B.E. in Computer Science & B.Sc. in Mathematics ( <i>Dual Degree</i> ) Thesis Advisor: Prof. Can Gao; Graduation Speech Representative; Featured in <a href="#">2024 Admissions Guide</a>	Sept 2020 – Jun 2024 GPA: <b>88.9/100 · 4.07/4.50</b>

## SELECTED PUBLICATIONS

\* indicates equal contribution or first author (student).

### — Preprints —

**Diversity Collapse despite Constant Entropy: Understanding Entropy in Flow-based RL**  
Xiaofeng Tan, Jun Liu, Bin-Bin Gao, Yuanting Fan, Xi Jiang, Chengjie Wang, Hongsong Wang, Feng Zheng  
*Under Review* (ICML 2026)

**ConsistentRFT: Reducing Visual Hallucinations in Flow-based Reinforcement Fine-Tuning**  
Xiaofeng Tan, Jun Liu, Yuanting Fan, Bin-Bin Gao, Xi Jiang, Xiaochen Chen, Jinlong Peng, Chengjie Wang, Hongsong Wang, Feng Zheng  
*Under Review* (CVPR 2026)

**FG-Diff: Frequency-Guided Diffusion Model with Perturbation Training for Skeleton-Based VAD**  
Xiaofeng Tan, Hongsong Wang, Xin Geng, Liang Wang  
*Under Review* (TIP, 2025, MiR\*3 + MR\*1)  
[\[Project\]](#) [\[PDF\]](#) [\[Code\]](#)

### — Published —

**EasyTune: Efficient Reinforcement Fine-Tuning for Diffusion-Based Motion Generation**  
Xiaofeng Tan\*, Wanjiang Weng\*, Haodong Lei, Hongsong Wang  
*ICLR'26 · International Conference on Learning Representations* (CORE-A\*)  
[\[Project\]](#) [\[Openreview\]](#)

**ReAlign: Text-to-Motion Generation via Step-Aware Reward-Guided Alignment**  
Wanjiang Weng\*, Xiaofeng Tan\*, Junbo Wang, Guo-Sen Xie, Pan Zhou, Hongsong Wang  
*AAAI'26 · AAAI Conference on Artificial Intelligence* (CCF-A, CORE-A\*)  
[\[Project\]](#)

**SoPo: Text-to-Motion Generation Using Semi-Online Preference Optimization**  
Xiaofeng Tan, Hongsong Wang, Xin Geng, Pan Zhou  
*NeurIPS'25 · Advances in Neural Information Processing Systems* (CCF-A, CORE-A\*)  
[\[Project\]](#) [\[PDF\]](#) [\[Code\]](#)

**Fuzzy Granule Density-Based Outlier Detection with Multi-Scale Granular Balls**  
Can Gao (Supervisor), Xiaofeng Tan\*, Jie Zhou, Weiping Ding, Witold Pedrycz  
*TKDE'25 · IEEE Transactions on Knowledge and Data Engineering* (CCF-A, SCI-Q1)  
[\[PDF\]](#) [\[Code\]](#)

## RESEARCH EXPERIENCE

<b>Tencent Inc.</b> , Shenzhen, China Research Intern @ <a href="#">YouTu Lab</a> Research Direction: RLHF, RLVR, AIGC	Jul 2025 – Present Mentor: Jun Liu Works: Consistent-RFT, PEC-RFT
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**Singapore Management University**, Singapore (Remote)  
Remote Visiting Student @ [Language and Vision Lab \(LV Lab\)](#)  
Research Direction: RLHF, Motion Generation

Jul 2024 – Mar 2025  
Mentor: Pan Zhou  
Works: SoPo (NeurIPS'25), ReAlign (AAAI'26)

**Southeast University**, Nanjing, China  
Master Student @ [PAttern Learning and Mining \(PALM\) Lab](#)  
Research Direction: RLHF, Motion Generation, Action Recognition

Apr 2024 – Present  
Mentor: Hongsong Wang  
Works: FG-Diff, EasyTune (ICLR'26)

**Shenzhen University**, Shenzhen, China  
Undergraduate Research Assistant @ [Computer Vision Institute](#)  
Research Direction: Outlier Detection, Anomaly Detection

Oct 2022 – Oct 2023  
Mentor: Can Gao  
Works: MGBOD (TKDE), TWCOD (IJAR)

## SERVICE

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Reviewer: ICML 2026

## HONORS & AWARDS

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Tencent Scholarship	Southeast University, Tencent	2025
First-Class Academic Scholarship	Southeast University	2025
Outstanding Graduate Representative	Shenzhen University (Graduation Speech)	2024
Featured in Admissions Guide	Shenzhen University (as Outstanding Student)	2024