

# XIAOFENG TAN

Shenzhen & Nanjing, China

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## RESEARCH INTERESTS

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

## EDUCATION

**Southeast University (SEU)**, Nanjing, China

Sept 2024 – Present

M.Sc. in Computer Science

GPA: **88.6**/100

[PALM Lab](#), supervised by Prof. [Hongsong Wang](#)

First-Class Academic Scholarship & Tencent Scholarship (top 1%); Summer Camp Rank 2

**Shenzhen University (SZU)**, Shenzhen, China

Sept 2020 – Jun 2024

B.E. in Computer Science & B.Sc. in Mathematics (*Dual Degree*)

GPA: **88.9**/100 · **4.07**/4.50

Thesis Advisor: Prof. Can Gao; Graduation Speech Representative; Featured in [2024 Admissions Guide](#)

## 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

**Tencent Inc.**, Shenzhen, China

Jul 2025 – Present

Research Intern @ [YouTu Lab](#)

Mentor: Jun Liu

Research Direction: RLHF, RLVR, AIGC

Works: Consistent-RFT, PEC-RFT

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