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 Step-Aware 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)   Jul 2024 – Mar 2025
Remote Visiting Student @ Language and Vision Lab (LV Lab)   *Mentor:* Pan Zhou
Research Direction: RLHF, Motion Generation   *Works:* SoPo (NeurIPS'25), ReAlign (AAAI'26)

Southeast University, Nanjing, China   Apr 2024 – Present
Master Student @ PAttern Learning and Mining (PALM) Lab   *Mentor:* Hongsong Wang
Research Direction: RLHF, Motion Generation, Action Recognition   *Works:* FG-Diff, EasyTune (ICLR'26)

Shenzhen University, Shenzhen, China   Oct 2022 – Oct 2023
Undergraduate Research Assistant @ Computer Vision Institute   *Mentor:* Can Gao
Research Direction: Outlier Detection, Anomaly Detection   *Works:* MGBOD (TKDE), TWCOD (IJAR)

SERVICE

Reviewer: ICML 2026

HONORS & AWARDS

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