

XIAOFENG TAN

Shenzhen & Nanjing, China

 Email ·  Homepage ·  GitHub ·  Scholar

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

Research Intern @ [YouTu Lab](#)

Research Direction: RLHF, RLVR, AIGC

Jul 2025 – Present

Mentor: Jun Liu

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

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