

XIAOFENG TAN

Shenzhen & Nanjing, China

[Email](#) · [Homepage](#) · [GitHub](#) · [Scholar](#)

RESEARCH INTERESTS

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

EDUCATION

Southeast University (SEU), Nanjing, China

Sept 2024 – Present

M.Sc. in Computer Science

[PALM Lab](#), supervised by Prof. Hongsong Wang (Lab Director: Prof. Xin Geng)

Shenzhen University (SZU), Shenzhen, China

Sept 2020 – Jun 2024

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

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

SELECTED PUBLICATIONS

* indicates equal contribution or first author (student).

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)

EasyTune: Efficient Step-Aware Fine-Tuning for Diffusion-Based Motion Generation

Xiaofeng Tan, Wanjiang Weng, Haodong Lei, Hongsong Wang

Under Review (ICLR 2026, Score: 6.5/10)

[Project] [Openreview]

ReAlign: Text-to-Motion Generation via Step-Aware Reward-Guided Alignment

Wanjiang Weng*, Xiaofeng Tan*, Hongsong Wang, Pan Zhou

AAAI, 2025 · 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, 2025 · Advances in Neural Information Processing Systems (CCF-A, CORE-A*)

[Project] [PDF] [Supp] [Code]

FG-Diff: Frequency-Guided Diffusion Model with Perturbation Training for Skeleton-Based Video Anomaly Detection

Xiaofeng Tan, Hongsong Wang, Xin Geng, Liang Wang

Under Review (TIP, MiR*3 + MR*1)

[Project] [PDF] [Supp] [Code]

Fuzzy Granule Density-Based Outlier Detection with Multi-Scale Granular Balls

Can Gao (Supervisor), Xiaofeng Tan*, Jie Zhou, Weiping Ding, Witold Pedrycz

TKDE, 2025 · IEEE Transactions on Knowledge and Data Engineering (CCF-A, SCI-Q1)

[PDF] [Code] [Supp]

RESEARCH EXPERIENCE

Tencent Inc. , Shenzhen, China Research Intern @ YouTu Lab Research Direction: RLHF, RIVR, AIGC	Jul 2025 – Present <i>Mentor:</i> Jun Liu, Feng Zheng <i>Works:</i> Consistent-RFT
Singapore Management University , Singapore (Remote) Remote Visiting Student @ Language and Vision Lab (LV Lab) Research Direction: RLHF, Motion Generation	Jul 2024 – Mar 2025 <i>Mentor:</i> Pan Zhou <i>Works:</i> SoPo (NeurIPS), ReAlign (AAAI)
Southeast University , Nanjing, China Master Student @ PAttern Learning and Mining (PALM) Lab Research Direction: RLHF, Motion Generation, Action Recognition	Apr 2024 – Present <i>Mentor:</i> Hongsong Wang <i>Works:</i> FG-Diff, EasyTune
Shenzhen University , Shenzhen, China Undergraduate Research Assistant @ Computer Vision Institute Research Direction: Outlier Detection, Anomaly Detection	Oct 2022 – Oct 2023 <i>Mentor:</i> Can Gao <i>Works:</i> MGBOD (TKDE), TWCOD (IJAR)

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