

# XIAOFENG TAN

Shenzhen & Nanjing, China

[✉ Email](#) · [🌐 Homepage](#) · [🐙 GitHub](#) · [🎓 Scholar](#)

## RESEARCH INTERESTS

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

## EDUCATION

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

Sept 2024 – Present

M.Sc. in Computer Science

GPA: **88.6**/100

[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*)

GPA: **88.9**/100 · **4.07**/4.50

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

## SELECTED PUBLICATIONS

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\* 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

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

HONORS & AWARDS

<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