

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 | GPA: 88.6/100 |
| PALM Lab , supervised by Prof. Hongsong Wang | |
| First-Class Academic Scholarship & Tencent Scholarship (top 1%); Summer Camp Rank 2 | |
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| Shenzhen University (SZU) , Shenzhen, China | Sept 2020 – Jun 2024 |
| B.E. in Computer Science & B.Sc. in Mathematics (<i>Dual Degree</i>) | 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).

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

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|--|--|
| 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

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| 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 |