Tiehan Fan, M.S.

Google Scholar Citations: 225
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Interests: Multimodal LLMs, Visual Generation and Understanding

Education

2024 – present
M.S., Nanjing University, Computer Science and Technology
College/School: *School of Intelligence Science and Technology*
NJU-PCA-Lab, Advisor: **Ying Tai**
Publications: CVPR*1, ICLR*2, NeurIPS*1.

2020 – 2024
B.S., Northeastern University, Control Science and Engineerin
College/School: *College of Information Science and Engineering*
NEU-DAO-Lab, Advisor: **Jian Wu & Jianxin Hou**
Publications: *SCI JCR Q2*1*

Intern

2025 – present
ByteDance-TikTok
Position: *Multimodal Algorithm Intern*

Research Publications

Conference Proceedings

1. **T. Fan**, K. Nan, R. Xie, P. Zhou, et al., "Instancecap: Improving text-to-video generation via instance-aware structured caption," in *Proceedings of the Computer Vision and Pattern Recognition Conference, CVPR 2025*, 2025, pp. 28 974–28 983, **(First Author)**.
2. Y. Du, **T. Fan**, K. Nan, R. Xie, et al., "Motionsight: Boosting fine-grained motion understanding in multimodal llms," in *The Thirteenth International Conference on Learning Representations, ICLR 2026*, 2025, **(Co-First Author)**.
3. K. Nan, R. Xie, P. Zhou, **T. Fan**, et al., "Openvid-1m: A large-scale high-quality dataset for text-to-video generation," in *The Thirteenth International Conference on Learning Representations, ICLR 2025*.
4. C. Zhao, E. Ci, Y. Xu, **T. Fan**, et al., "Ultrahr-100k: Enhancing uhr image synthesis with a large-scale high-quality dataset," in *Conference and Workshop on Neural Information Processing System 2025, , NeurIPS 2025*, 2025.

Journal Articles

1. **T. Fan**, J. Hou, and J. Hu, "An effective framework for predicting performance of solid-solution copper alloys using a feature engineering technique in machine learning," *Metals, JCR Q2*, vol. 13, no. 10, p. 1641, 2023, **(Co-First Author)**.