

Yunlong Tang

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🌐 <https://yunlong10.github.io/>

Education

- 📖 **University of Rochester** Aug. 2023 – Jun. 2028 (Expected)
Ph.D. Student in Computer Science, advised by Prof. Chenliang Xu Rochester, NY, US
- 📖 **Southern University of Science and Technology (SUSTech)** Aug. 2019 – Jun. 2023
B.Eng. in Intelligence Science and Technology, advised by Prof. Feng Zheng Shenzhen, China

Professional Experience

- 📖 **ByteDance** May. 2024 – Aug. 2024 (Expected)
Research Intern, supervised by Gen Zhan and Dr. Yiting Liao San Jose, CA, US
 - Conducting research on Large Language Models for Video ROI/Saliency Detection.
- 📖 **SUSTech VIP Lab** Aug. 2022 – Jul. 2023
Undergraduate Student Researcher, supervised by Prof. Feng Zheng Shenzhen, China
 - Participated in the Generic Event Boundary Captioning competition at CVPR 2023 Long-form Video Understanding Workshop, proposed the LLMVA-GEBC model [4] that won the championship.
 - Proposed LaunchpadGPT, utilizing a language model to generate Launchpad displaying video for music visualization. Results [7] accepted to International Computer Music Conference (ICMC), 2023.
 - Collaborated on the Caption-Anything project, contributed to the segmentation module for supporting interactive visual prompts, and involved in the technical report [6] writing.
- 📖 **Tencent** Sept. 2021 – Aug. 2022
Research Intern, supervised by Qin Lin and Dr. Wenhao Jiang Shenzhen, China
 - Proposed and developed multi-modal segment assemblage network (M-SAN) and importance-coherence reward for training. The method improves efficiency and accuracy compared to current automatic advertisement video editing techniques. Results [8] accepted to ACCV 2022.
 - Deployed the model in Tencent servers online to perform efficient and accurate ad video editing, and filed the patent *An Approach for Automatic Ad Video Editing*.

Research Publications

- 1 M. Feng, **Y. Tang**, Z. Zhang, and C. Xu, “Do More Details Always Introduce More Hallucinations in LVLM-based Image Captioning?” *arXiv preprint arXiv:2406.12663*, 2024.
- 2 H. Hua*, **Y. Tang***, C. Xu, and J. Luo, “V2Xum-LLM: Cross-Modal Video Summarization with Temporal Prompt Instruction Tuning,” *arXiv preprint arXiv:2404.12353*, 2024.
- 3 **Y. Tang**, D. Shimada, J. Bi, and C. Xu, “AVicuna: Audio-Visual LLM with Interleaver and Context-Boundary Alignment for Temporal Referential Dialogue,” *arXiv preprint arXiv:2403.16276*, 2024.
- 4 **Y. Tang**, J. Zhang, X. Wang, T. Wang, and F. Zheng, “LLMVA-GEBC: Large Language Model with Video Adapter for Generic Event Boundary Captioning,” *arXiv preprint arXiv:2306.10354*, 2023.
- 5 **Y. Tang***, J. Bi*, S. Xu*, L. Song, S. Liang, T. Wang, D. Zhang, J. An, J. Lin, R. Zhu, *et al.*, “Video Understanding with Large Language Models: A Survey,” *arXiv preprint arXiv:2312.17432*, 2023.
- 6 T. Wang, J. Zhang, J. Fei, H. Zheng, **Y. Tang**, Z. Li, M. Gao, and S. Zhao, “Caption anything: Interactive Image Description with Diverse Multimodal Controls,” *arXiv preprint arXiv:2305.02677*, 2023.

- 7 S. Xu*, **Y. Tang***, and F. Zheng, "LaunchpadGPT: Language Model as Music Visualization Designer on Launchpad," *arXiv preprint arXiv:2307.04827*, 2023.
- 8 **Y. Tang**, S. Xu, T. Wang, Q. Lin, Q. Lu, and F. Zheng, "Multi-modal Segment Assemblage Network for Ad Video Editing with Importance-Coherence Reward," in *Proceedings of the Asian Conference on Computer Vision (ACCV)*, Dec. 2022, pp. 3519–3535.

Academic Service

Conference Reviewer 📖 CVPR 2024, ACM MM 2024, IEEE MIPR 2024, ACL 2024, NeurIPS 2024
Journal Reviewer 📖 IEEE Transactions on Multimedia (TMM)

Skills

Languages 📖 English (fluent), Mandarin Chinese (native).
Coding 📖 Python, C++, Java, MATLAB, \LaTeX .
Web Dev 📖 HTML, CSS, JavaScript.
Misc. 📖 PyTorch, Hugging Face, OpenCV, FFmpeg, LangChain.

Miscellaneous Experience

Teaching Assistant

2023 📖 **Spring CS308 Computer Vision**, SUSTech.
Instructor: *Prof. Feng Zheng*.
2022 📖 **Fall CS308 Computer Vision**, SUSTech.
Instructor: *Prof. Feng Zheng*.

Certification

2021 📖 **Certified in Machine Learning, Modeling, and Simulation Principles** from Massachusetts Institute of Technology (MIT). Credential ID: [5ed6ad60-3f98-4009-b342-95bdae56fef5](#).

Awards and Achievements

2023 📖 **The First Place** in Generic Event Boundary Captioning Track of **LOVEU** (Long-form Video Understanding) Challenge at CVPR 2023 Workshop.
📖 **Excellent Graduate for Exceptional Performance**, SUSTech.
📖 **Excellent Undergraduate Thesis**, Department of Computer Science and Engineering, SUSTech.
2022 📖 **The First Class of Merit Student Scholarship for Exceptional Performance**, SUSTech.
2021 📖 **Research Innovation Award**, Shude College, SUSTech.