Yunlong TANG

Email: yunlong.tang@rochester.edu | Mobile: (+1) 585-616-0074 | Website: 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, USA*

Southern University of Science and Technology (SUSTech) Aug. 2019 - Jun. 2023

B.Eng. in Intelligence Science and Technology (GPA: 3.66/4.00), advised by Prof. Feng Zheng *Shenzhen, CN*

EXPERIENCES

Tencent, Data Platform Sept. 2021 - Aug. 2022

ML Research Intern, supervised by Ms. Qin Lin and Dr. Wenhao Jiang *Shenzhen, CN*

- Proposed and developed multi-modal segment assemblage network (M-SAN) and importance-coherence reward for training. The method improves efficiency and accuracy when compared to current automatic ad video editing techniques. Results [1] 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".

SUSTech VIP Lab Aug. 2022 - Jul. 2023

Undergraduate Student Researcher, supervised by Prof. Feng Zheng *Shenzhen, CN*

- Participated in the Caption-Anything project, responsible for modifying and deploying the Segmentation Module (SAM) module, and involved in technical report [4] writing.
- Participated in the Generic Event Boundary Captioning competition at CVPR 2023 Long-form Video Understanding Workshop, and proposed the LLMVA-GEBC model [3] that won the championship in the competition.

PUBLICATIONS

(* equal contribution)

[1] **Yunlong Tang**, Siting Xu, Teng Wang, Qin Lin, Qinglin Lu, Feng Zheng, "Multi-modal Segment Assemblage Network for Ad Video Editing with Importance-Coherence Reward", *in Proceedings of 16th Asian Conference on Computer Vision (ACCV)*, 2022.

[2] Siting Xu*, **Yunlong Tang***, Feng Zheng, "LaunchpadGPT: Language Model as Music Visualization Designer on Launchpad", *in Proceedings of International Computer Music Conference (ICMC)*, 2023.

PREPRINTS

(* equal contribution)

[3] **Yunlong Tang**, Jinrui Zhang, Xiangchen Wang, Teng Wang, Feng Zheng, "LLMVA-GEBC: Large Language Model with Video Adapter for Generic Event Boundary Captioning", *in arXiv:2306.10354*, 2023.

[4] Teng Wang*, Jinrui Zhang*, Junjie Fei*, Hao Zheng, **Yunlong Tang**, Zhe Li, Mingqi Gao, Shanshan Zhao, "Caption Anything: Interactive Image Description with Multimodal Controls", *in arXiv:2305.02677*, 2023.

TEACHING EXPERIENCE

SUSTech Sept. 2022 - Jun. 2023

Teaching Assistant for SUSTech CS308 Computer Vision *Shenzhen, CN*

HONORS & AWARDS

- 1st Place in Generic Event Boundary Captioning Track of LOVEU Challenge at CVPR 2023.
- Outstanding Graduate, the Department of Computer Science and Engineering, SUSTech, 2023.
- Excellent Undergraduate Thesis, the Department of Computer Science and Engineering, SUSTech, 2023.
- 1st Prize of Outstanding Student Scholarship, SUSTech, 2021-2022.
- Research Innovation Award, Shude College, SUSTech, 2020-2021.

SKILLS LIST

- Programming Languages: Python, C++, Java, JavaScript, MATLAB
- Libraries/Tools: PyTorch, HuggingFace, OpenCV, FFmpeg
- Language: Chinese (native), English (fluent)