Yunbin Tu

Ph.D. Student, University of Chinese Academy of Sciences, Beijing, China

Email: tuyunbin22@mails.ucas.ac.cn — Mobile: (+86) 15010751895 — Website: https://tuyunbin.github.io/

RESEARCH INTERESTS

Vision-and-Language, Multimedia Content Analysis

EDUCATION

University of Chinese Academy of Sciences — Beijing, China
Ph.D. in Computer Applied Technology — Sep. 2022 — Present
Advisors: Prof. Li Su and A.P. Liang Li (ICT, CAS)

Kunming University of Science and Technology — Kunming, China
M.Eng in Pattern Recognition and Intelligent Systems — Sep. 2019 — Jun 2022
Advisors: Prof. Zhengtao Yu

Hangzhou Dianzi University — Hangzhou, China
B.Eng in Automation — Sep. 2014 — Jun 2018
Advisors: Prof. Chenggang Yan

INTERN EXPERIENCE

VIPL Research Group, ICT, CAS — Beijing, China
Research Intern with A.P. Liang Li — Nov. 2020 — Aug. 2022

- Worked on video captioning/retrieval and change captioning.

Tsinghua Shenzhen International Graduate School — Shenzhen, China
Research Intern with A.P. Xingzheng Wang — Mar. 2018 — Jun. 2018

- Worked on video Captioning.

Prospective Research Lab, ICT, CAS — Beijing, China
Research Intern with Dr. Xishan Zhang — Jun. 2016 — Jun. 2017

- Worked on video captioning.

Honors & Awards

- Merit Student, University of Chinese Academy of Sciences, 2023.
- Excellent Master's Graduation Thesis, Kunming University of Science and Technology, 2022.
- Yunnan Merit Student, Yunnan Province, 2021, 2022.
- National Scholarship for Graduate Students, Ministry of Education of the People's Republic of China, 2021.
- Student Travel Grant, ACM International Conference on Multimedia (ACM MM), 2017.

Academic Services

- PC member of conferences: AAAI 2023/2024, ACL 2023, EMNLP 2023, ACM MM 2023.
- Reviewer of journals: IEEE TCSVT (IF:8.4), IEEE TETCI (IF:5.3), Artificial Intelligence Review (IF:12.0).

PUBLICATIONS

- Citations = 509; h-index = 8; i10-index = 6; as of Dec. 11th, 2023.
- Check my google scholar profile for the latest list of publications.

[1] **Yunbin Tu**, Liang Li, Li Su, Zheng-Jun Zha, Chenggang Yan, Qingming Huang. Self-supervised Cross-view Representation Reconstruction for Change Captioning, ICCV, 2023.
[2] **Yunbin Tu**, Liang Li, Li Su, Junping Du, Ke Lu, Qingming Huang, Viewpoint-Adaptive Representation Disentanglement Network for Change Captioning, IEEE Transactions on Image Processing, 2023 (IF:10.6).
[3] **Yunbin Tu**, Liang Li, Li Su, Ke Lu, Qingming Huang, Neighborhood Contrastive Transformer for Change Captioning, IEEE Transactions on Multimedia, 2023 (IF:7.3).

[4] **Yunbin Tu**, Chang Zhou, Junjun Guo, Huafeng Li, Shengxiang Gao, Zhengtao Yu, Relation-aware attention for video captioning via graph learning, Pattern Recognition, 2023 (IF:8.0).

[5] Shengbin Yue, **Yunbin Tu**, Liang Li, Ying Yang, Shengxiang Gao, Zhengtao Yu, I3N: Intra- and Inter-representation Interaction Network for Change Captioning, IEEE Transactions on Multimedia, 2023 (IF:7.3).

[6] **Yunbin Tu**, Liang Li, Li Su, Shengxiang Gao, Chenggang Yan, Zhengjun Zha, Zhengtao Yu, Qingming Huang, I2Transformer: Intra- and Inter-relation Embedding Transformer for TV Show Captioning, IEEE Transactions on Image Processing, 2022 (IF:10.6).

[7] Liang Li, Xingyu Gao, Jincan Deng, **Yunbin Tu**, Zhengjun Zha, Qingming Huang, Long Short-Term Relation Transformer with Global Gating for Video Captioning, IEEE Transactions on Image Processing, 2022 (IF:10.6).

[8] Gaoxiang Cong, Liang Li, Zhenhuan Liu, **Yunbin Tu**, Weijun Qin, Shenyuan Zhang, Chengang Yan, Wenyu Wang, Bin Jiang: LS-GAN: Iterative Language-based Image Manipulation via Long and Short Term Consistency Reasoning, ACM MM, 2022.

[9] **Yunbin Tu**, Chang Zhou, Junjun Guo, Shengxiang Gao, Zhengtao Yu, Enhancing the Alignment between Target Words and Corresponding Frames for Video Captioning, Pattern Recognition, 2021 (IF:8.0).

[10] **Yunbin Tu**, Liang Li, Tingting Yao, Jiedong Lou, Shengxiang Gao, Zhengtao Yu, Chenggang Yan, Semantic Relation-aware Difference Representation Learning for Change Captioning, Findings of ACL (Long), 2021.

[11] **Yunbin Tu**, Liang Li, Chenggang Yan, Shengxiang Gao, Zhengtao Yu, R3Net: Relation-embedded Representation Reconstruction Network for Change Captioning, EMNLP (Long), 2021.

[12] Chengang Yan, **Yunbin Tu**, Xingzheng Wang, Yongbing Zhang, Xinhong Hao, Yongdong Zhang, Qionghai Dai, STAT: spatial-temporal attention mechanism for video captioning, IEEE Transactions on Multimedia, 2019 (IF:7.3).

[13] **Yunbin Tu**, Xishan Zhang, Bingtao Liu, Chenggang Yan, Video Description with Spatial-Temporal Attention, ACM MM, 2017.