

YUNBIN TU

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RESEARCH INTERESTS

- **Vision-and-Language:** video captioning, change captioning, image captioning, multi-modal machine translation.
- **Multimedia content analysis:** multi-modal fusion, text-based information retrieval from video.

EDUCATION

University of Chinese Academy of Sciences Ph.D. in Computer Applied Technology, Advisor: Prof. Li Su and Prof. Liang Li (ICT, CAS)	<i>Sep. 2022 – Present</i> Beijing, China
Kunming University of Science and Technology M.S. in Pattern Recognition and Intelligent Systems, Advisor: Prof. Zhengtao Yu	<i>Sep. 2019 – Jun. 2022</i> Kunming, China
Hangzhou Dianzi University B.S. in Automation, Advisor: Prof. Chenggang Yan	<i>Sep. 2014 – Jun. 2018</i> Hangzhou, China

HONORS & AWARDS

- National Scholarship for Doctoral Students, Ministry of Education of the People's Republic of China, 2024.
- Diversity and Inclusion Award, Annual Meeting of the Association for Computational Linguistics (ACL), 2024.
- Merit Student, University of Chinese Academy of Sciences, 2023, 2024.
- Yunnan Merit Student, Yunnan Province, 2021, 2022.
- National Scholarship for Master's 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 2023/2024/2025, ACL 2023/2024, EMNLP 2023/2024, ACM MM 2023/2024, CVPR 2025, NACCL 2025.
- Reviewer of journals: IEEE TIP (IF:10.8), IEEE TCSVT (IF:8.3), IEEE TETCI (IF:5.3), Artificial Intelligence Review (IF:10.7), Neurocomputing (IF:5.5), CVIU (IF:4.3), Multimedia Systems (IF:3.5), International Journal of Multimedia Information Retrieval (IF: 3.6).

SELECTED PUBLICATIONS

- Citations = 769; h-index = 13; i10-index = 14; as of December 14, 2024.
- Check my google scholar profile for the detailed list of publications.

- [1] **Yunbin Tu**, Liang Li, Li Su, Qingming Huang. Query-centric Audio-Visual Cognition Network for Moment Retrieval, Segmentation and Step-Captioning, **AAAI**, 2025.
- [2] **Yunbin Tu**, Liang Li, Li Su, Chenggang Yan, Qingming Huang. Distractors-Immune Representation Learning with Cross-modal Contrastive Regularization for Change Captioning, **ECCV**, 2024.
- [3] **Yunbin Tu**, Liang Li, Li Su, Zheng-Jun Zha, Chenggang Yan, Qingming Huang. Context-aware Difference Distilling for Multi-change Captioning, **ACL** (main conference, long paper), 2024.
- [4] **Yunbin Tu**, Liang Li, Li Su, Zheng-Jun Zha, Qingming Huang. SMART: Syntax-calibrated Multi-Aspect Relation Transformer for Change Captioning, IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2024 (IF:20.8).
- [5] **Yunbin Tu**, Liang Li, Li Su, Zheng-Jun Zha, Chenggang Yan, Qingming Huang. Self-supervised Cross-view Representation Reconstruction for Change Captioning, **ICCV**, 2023.
- [6] **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 (**TIP**), 2023 (IF:10.8).
- [7] **Yunbin Tu**, Liang Li, Li Su, Ke Lu, Qingming Huang. Neighborhood Contrastive Transformer for Change Captioning, IEEE Transactions on Multimedia (**TMM**), 2023 (IF:8.4).

- [8] **Yunbin Tu**, Chang Zhou, Junjun Guo, Huafeng Li, Shengxiang Gao, Zhengtao Yu, Relation-aware attention for video captioning via graph learning, Pattern Recognition (**PR**), 2023 (IF:7.5).
- [9] **Yunbin Tu**, Liang Li, Li Su, Shengxiang Gao, Chenggang Yan, Zhengjun Zha, Zhengtao Yu, Qingming Huang, l²Transformer: Intra- and Inter-relation Embedding Transformer for TV Show Captioning, IEEE Transactions on Image Processing (**TIP**), 2022 (IF:10.8).
- [10] **Yunbin Tu**, Chang Zhou, Junjun Guo, Shengxiang Gao, Zhengtao Yu, Enhancing the Alignment between Target Words and Corresponding Frames for Video Captioning, Pattern Recognition (**PR**), 2021 (IF:7.5).
- [11] **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.
- [12] **Yunbin Tu**, Liang Li, Chenggang Yan, Shengxiang Gao, Zhengtao Yu, R³Net: Relation-embedded Representation Reconstruction Network for Change Captioning, **EMNLP** (Long), 2021.
- [13] 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 (**TMM**), 2019 (IF:8.4, ACM MM 2017 extension).
- [14] **Yunbin Tu**, Xishan Zhang, Bingtao Liu, Chenggang Yan, Video Description with Spatial-Temporal Attention, **ACM MM**, 2017.