Liqi Yan

Ph.D | Fudan University
Associate Professor with Special Appointment | Hangzhou Dianzi University

I work as an Associate Professor with Special Appointment for Hangzhou Dianzi University. I received my Ph.D degree from **Fudan University** in 2023. Prior to that, I earned my bachelor's degree from Beijing University of Posts and Telecommunications in 2018. Between 2018 and 2023, I conducted research in a collaborative doctoral program between Westlake University and Fudan University. My current research topic covers **Deep Learning** (DL), **Computer Vision** (CV), **Natural Language Processing** (NLP), and **Robotic Navigation**. I am focused on combining computer vision with natural language processing on the platform of robotics. I have conducted basic and applied research, including video captioning, visual-language robotic navigation, and visual geo-localization, etc. My publication portfolio includes papers from top-tier conferences and journals spanning **ICCV**, **AAAI**, **IJCAI**, **IROS**, **ICASSP**, and **TCSVT**. I served as the chair of Westlake University ACM Student Chapter in 2021. I also serve as a Program Committee Member (**PC Member**) for AAAI and IJCAI. Additionally, I serve as a reviewer for TIP, TCSVT, etc.

Educations

BA	–	**Beijing University of Posts and Telecommunications**	09 / 2014 – 06 / 2018
Ph.D	–	**Fudan University**	09 / 2018 – 06 / 2023

Publications

Video Captioning: 2019 – 2023

- **Liqi Yan**, Cheng Han, Zenglin Xu, Dongfang Liu, and Qifan Wang. "*Prompt Learns Prompt: Exploring Knowledge-Aware Generative Prompt Collaboration for Video Captioning*." In ***IJCAI*** (2023).
- **Liqi Yan**, Qifan Wang, Yiming Cui, Fuli Feng, Xiaojun Quan, Xiangyu Zhang, and Dongfang Liu. "*Gl-rg: Global-local representation granularity for video captioning*." In ***IJCAI*** (2022).

Visual-Language Navigation: 2020 – 2021

- **Liqi Yan**, Dongfang Liu, Yaoxian Song, and Changbin Yu. "*Multimodal aggregation approach for memory vision-voice indoor navigation with meta-learning*." In ***IROS*** (2020).
- **Liqi Yan**, Yiming Cui, Yingjie Chen, and Dongfang Liu. "*Hierarchical attention fusion for geo-localization*." In ***ICASSP*** (2021).

Video Object Detection / Segmentation: 2020 – 2021

- Yiming Cui*, **Liqi Yan***, Zhiwen Cao, and Dongfang Liu. "Tf-blender: Temporal feature blender for video object detection." In ***ICCV***. (2021). (*Equal Contribution)
- **Liqi Yan**, Qifan Wang, Siqi Ma, Jingang Wang, and Changbin Yu. "Solve the puzzle of instance segmentation in videos: A weakly supervised framework with spatio-temporal collaboration." ***TCSVT*** (2022).

Services

Westlake University ACM Student Chapter	**Chair**	**2019 – 2020**
AAAI 2023, IJCAI 2023, AAAI 2024, IJCAI 2024	**PC Member**	**2022 – 2023**
TIP, TCSVT, IROS, ICME, MTAP, etc.	**Reviewer**	**2022 – 2023**

Partner

- Dongfang Liu (Ph.D., Purdue University) - ***Assistant Professor*, RIT.**
- Qifan Wang (Ph.D., Purdue University) - ***Research Scientist*, Meta AI.**
- Jianhui Zhang (Ph.D., Zhejiang University) – ***Full Professor*, Hangzhou Dianzi University.**
- Wenhui Zhou (Ph.D., Zhejiang University) – ***Full Professor*, Hangzhou Dianzi University.**

Partners' Publications

- **Wenhui Zhou**, Enci Zhou, Gaoming Liu, et al. "*Unsupervised Monocular Depth Estimation from Light Field Image*", ***TIP*** (2020).
- Manzil Zaheer, Guru Guruganesh, Kumar Avinava Dubey, Joshua Ainslie, Chris Alberti, Santiago Ontanon, Philip Pham, Anirudh Ravula, **Qifan Wang**, Li Yang, Amr Ahmed. "*Big bird: Transformers for longer sequences*." In ***NIPS*** (2020).
- Wenguan Wang, James Liang, **Dongfang Liu**. "*Learning equivariant segmentation with instance-unique querying.*" In ***NIPS*** (2022).
- Wenguan Wang, Cheng Han, Tianfei Zhou, **Dongfang Liu**. "*Visual recognition with deep nearest centroids*", In ***ICLR*** (2023).
- Cheng Han, **Qifan Wang,** Yiming Cui, Zhiwen Cao, Wenguan Wang, Siyuan Qi, **Dongfang Liu**. "*E2VPT: An Effective and Efficient Approach for Visual Prompt Tuning*." In ***ICCV*** (2023).
- Yawen Lu, **Qifan Wang**, Siqi Ma, Tong Geng, Yingjie Victor Chen, Huaijin Chen, **Dongfang Liu**. "*TransFlow: Transformer as Flow Learner*." In ***CVPR*** (2023).