



## 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

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

## 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	<b>Chair</b>	<b>2019 – 2020</b>
■ AAAI 2023, IJCAI 2023, AAAI 2024, IJCAI 2024	<b>PC Member</b>	<b>2022 – 2023</b>
■ TIP, TCSVT, IROS, ICME, MTAP, etc.	<b>Reviewer</b>	<b>2022 – 2023</b>

## Partners

- **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).