Yu Wu

Professor at School of Computer Science, Wuhan University

Research interest: Multi-modal Learning, Video Understanding, Computer Vision

■ yuwu@princeton.edu · **%** https://yu-wu.net

EDUCATION

Princeton University , Princeton, United States <i>Postdoctoral Research Associate</i> at the Princeton Visual AI Lab.	2021 – 2022
University of Technology Sydney, Sydney, Australia	2017 – 2021
Ph.D. Degree in Computer Science, advised by Prof. Yi Yang.	
Shanghai Jiao Tong University, Shanghai, China	2011 – 2015
Bachelor Degree in Mechanical Engineering	
ACADEMIC EXPERIENCE	
CVPR 2023 Organizing Committee: Workshop Chair	Aug. 2022
CVPR 2023 Area Chair	Sep. 2022
♥ Awards	
CVPR 2021 Doctoral Consortium (30 recipients world-wide)	Jun. 2021
1st Place Award in The 3rd Large-scale Video Object Segmentation Challenge @ CVPR21	May. 2021
Google PhD Fellowship in Computer Vision (10 recipients world-wide)	Oct. 2020
Outstanding Reviewer Award for ECCV	Jul. 2020
1st Place Award in CVPR 2020 EPIC-Kitchens Action Recognition Challenge	Jun. 2020
Travel Grant Award for ICCV 2019	Oct. 2019
1st Place Award in CVPR 2019 EPIC-Kitchens Action Recognition Challenge	Jun. 2019
President's Scholarship in University of Technology Sydney	Jul. 2017
	2012-2014
Academic Excellence Scholarship in Shanghai Jiao Tong University	

- 1. Jihoon Chung, **Yu Wu**, Olga Russakovsk. *Enabling Detailed Action Recognition Evaluation Through Video Dataset Augmentation*, in **NeurIPS**, 2022.
- 2. Mengxue Qu, **Yu Wu**, Wu Liu, Qiqi Gong, Xiaodan Liang, Olga Russakovsky, Yao Zhao, Yunchao Wei. *SiRi: A Simple Selective Retraining Mechanism for Transformer-based Visual Grounding*, in **ECCV**, 2022.
- 3. Zeyu Wang, **Yu Wu**, Karthik Narasimhan, Olga Russakovsky. *Multi-query Video Retrieval*, in **ECCV**, 2022.
- 4. Ye Zhu, Kyle Olszewski, **Yu Wu**, Panos Achlioptas, Menglei Chai, Yan Yan, Sergey Tulyakov. *Quantized GAN for Complex Music Generation from Dance Videos*, in **ECCV**, 2022.
- 5. Yadong Ding, **Yu Wu**, Chengyue Huang, Siliang Tang, Yi Yang, Longhui Wei, Yueting Zhuang, Qi Tian. *Learning to Learn by Jointly Optimizing Neural Architecture and Weights*, in **CVPR**, 2022.
- 6. Jiaxu Miao, Xiaohan Wang, **Yu Wu**, Wei Li, Xu Zhang, Yunchao Wei, Yi Yang. *Large-scale Video Panoptic Segmentation in the Wild: A Benchmark*, in **CVPR**, 2022.

- 7. **Yu Wu**, Yi Yang. *Exploring Heterogeneous Clues for Weakly-Supervised Audio-Visual Video Parsing*, in **CVPR**, 2021.
- 8. Jiaxu Miao, Yunchao Wei, **Yu Wu**, Chen Liang, Guangrui Li, Yi Yang. *VSPW: A Large-scale Dataset for Video Scene Parsing in the Wild*, in **CVPR**, 2021.
- 9. Ye Zhu, **Yu Wu**, Hugo Latapie, Yi Yang, Yan Yan. *Learning Audio-Visual Correlations from Variational Cross-Modal Generation*, in **ICASSP**, 2021.
- 10. Ye Zhu, **Yu Wu**, Yi Yang, Yan Yan. *Describing Unseen Videos via Multi-Modal Cooperative Dialog Agents*, in **ECCV**, 2020.
- 11. Xiaohan Wang*, **Yu Wu***, Linchao Zhu, Yi Yang, Yueting Zhuang. *Symbiotic Attention: UTS-Baidu Submission to the EPIC-Kitchens 2020 Action Recognition Challenge*, in **CVPR** Workshop, 2020. (* Equal Contribution)
- 12. Yutian Lin, Lingxi Xie, **Yu Wu**, Chenggang Yan, Qi Tian. *Unsupervised Person Re-identification via Softened Similarity Learning*, in **CVPR**, 2020.
- 13. Zongxin Yang, Linchao Zhu, **Yu Wu**, Yi Yang. *Gated Channel Transformation for Visual Recognition*, in **CVPR**, 2020.
- 14. Mengshi Qi, Jie Qin, **Yu Wu**, Yi Yang. *Imitative Non-Autoregressive Modeling for Trajectory Forecasting and Imputation*, in **CVPR**, 2020.
- 15. Xiaohan Wang, **Yu Wu**, Linchao Zhu, Yi Yang. *Symbiotic Attention with Privileged Information for Ego- centric Action Recognition*, in **AAAI (Oral)**, 2020.
- 16. Yu Wu, Linchao Zhu, Yan Yan, Yi Yang. *Dual Attention Matching for Audio-Visual Event Localization*, in ICCV (Oral), 2019.
- 17. Jiaxu Miao, **Yu Wu**, Ping Liu, Yuhang Ding, Yi Yang. *Pose-Guided Feature Alignment for Occluded Person Re-identification*, in **ICCV**, 2019.
- 18. Ruijie Quan, Xuanyi Dong, **Yu Wu**, Linchao Zhu, Yi Yang. *Auto-ReID: Searching for a Part-aware Con- vNet for Person Re-Identification*, in **ICCV**, 2019.
- 19. Yu Wu, Linchao Zhu, Lu Jiang, Yi Yang. Decoupled Novel Object Captioner, in ACM MM, 2018.
- 20. **Yu Wu**, Yutian Lin, Xuanyi Dong, Yan Yan, Wanli Ouyang, Yi Yang. *Exploit the Unknown Gradually: One-Shot Video-Based Person Re-Identification by Stepwise Learning*, in **CVPR**, 2018.

Journal Publications

- 1. **Yu Wu**, Lu Jiang, Yi Yang. *Switchable Novel Object Captioner*, in IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2022.
- 2. **Yu Wu**, Linchao Zhu, Xiaohan Wang, Yi Yang, Fei Wu. *Learning to Anticipate Egocentric Actions by Imagination*, in IEEE Transactions on Image Processing (**TIP**), 2021.
- 3. Ye Zhu, **Yu Wu**, Yan Yan, Yi Yang. *Saying the Unseen: Video Descriptions via Dialog Agents*, in IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2021.
- 4. Ruijie Quan, **Yu Wu***, Xin Yu, Yi Yang. *Progressive Transfer Learning for Face Anti-Spoofing*, in IEEE Transactions on Image Processing (**TIP**), 2021. (* *Corresponding Author*)
- 5. Jiaxu Miao, **Yu Wu***, Yi Yang. *Identifying Visible Parts via Pose Estimation for Occluded Person Re-Identification*, in IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**), 2021. (* *Corresponding Author*)
- 6. Fan Ma, **Yu Wu**, Xin Yu, Yi Yang. *Learning with Noisy Labels via Self-Reweighting from Class Centroids*, in IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**), 2021.
- 7. Ruijie Quan, Linchao Zhu, **Yu Wu**, Yi Yang. *Holistic LSTM for Pedestrian Trajectory Prediction*, in IEEE Transactions on Image Processing (**TIP**), 2021.
- 8. Xiaohan Wang, Linchao Zhu, Yu Wu, Yi Yang. Symbiotic Attention for Egocentric Action Recognition with

- *Object-centric Alignment*, in IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2020.
- 9. **Yu Wu**, Lu Jiang, Yi Yang. *Revisiting EmbodiedQA: A Simple Baseline and Beyond*, in IEEE Transactions on Image Processing (**TIP**), 2020.
- 10. Yutian Lin, **Yu Wu***, Chenggang Yan, Mingliang Xu, Yi Yang. *Unsupervised Person Re-identification via Cross-camera Similarity Exploration*, in IEEE Transactions on Image Processing (**TIP**), 2020. (* *Corresponding Author*)
- 11. Qianyu Feng, **Yu Wu**, Hehe Fan, Chenggang Yan, Mingliang Xu, Yi Yang. *Cascaded Revision Network for Novel Object Captioning*, in IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**), 2020.
- 12. **Yu Wu**, Yutian Lin, Xuanyi Dong, Yan Yan, Wei Bian, Yi Yang. *Progressive Learning for Person Re-Identification with One Example*, in IEEE Transactions on Image Processing (**TIP**), 2019.
- 13. Yutian Lin, Liang Zheng, Zhedong Zheng, **Yu Wu**, Yi Yang. *Improving person re-identification by attribute and identity learning*, in Pattern Recognition (**PR**), 2019.