Wanhua Li

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Academic Employment

School of Engineering and Applied Sciences, Harvard University

Postdoctoral Fellow, working with Prof. Hanspeter Pfister

Boston, USA Oct. 2022 - Present

Education

Department of Automation, Tsinghua University

Beijing, China

Ph.D. in Computer Vision

Aug. 2017 - Jun. 2022

Advisors: Prof. Jiwen Lu, and Prof. Jianjiang Feng

GPA: 3.9/4.0, Top 1/76

School of Data and Computer Science, Sun Yat-Sen University

Guangzhou, China Aug. 2013 - Jun. 2017

B.E. in Computer Science GPA: 4.0/4.0, Top 1/118

Work Experiences

Visual Computing Group at Microsoft Research Asia (MSRA)

Research assistant, working with Dr. Qi Dai and Dr. Han Hu

Jun. 2022 - Oct. 2022

Publications

Peer-Reviewed Conference Publications

- [1] Devaansh Gupta, Siddhant Kharbanda, Jiawei Zhou, **Wanhua Li**, Hanspeter Pfister, and Donglai Wei **CLIPTrans: Transferring Visual Knowledge with Pre-trained Models for Multimodal Machine Translation** *IEEE International Conference on Computer Vision* (*ICCV*), 2023
- [2] Shuai Shen, Wanhua Li, Xiaobing Wang, Dafeng Zhang, Zhezhu Jin, Jie Zhou, and Jiwen Lu CLIP-Cluster: CLIP-Guided Attribute Hallucination for Face Clustering IEEE International Conference on Computer Vision (ICCV), 2023
- [3] Shuai Shen, Wenliang Zhao, Zibin Meng, Wanhua Li, Zheng Zhu, Jie Zhou, and Jiwen Lu DiffTalk: Crafting Diffusion Models for Generalized Audio-Driven Portraits Animation IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- [4] Wanhua Li*, Xiaoke Huang*, Zheng Zhu, Yansong Tang, Xiu Li, Jie Zhou, and Jiwen Lu OrdinalCLIP: Learning Rank Prompts for Language-Guided Ordinal Regression Conference on Neural Information Processing Systems (NeurIPS), 2022
- [5] Wanhua Li, Zhexuan Cao, Jianjiang Feng, Jie Zhou, and Jiwen Lu Label2Label: A Language Modeling Framework for Multi-Attribute Learning European Conference on Computer Vision (ECCV), 2022
- [6] Shuai Shen, **Wanhua Li**, Zheng Zhu, Yueqi Duan, Jie Zhou, and Jiwen Lu **Learning Dynamic Facial Radiance Fields for Few-Shot Talking Head Synthesis** *European Conference on Computer Vision (ECCV)*, 2022
- [7] Wanhua Li, Xiaoke Huang, Jiwen Lu, Jianjiang Feng, and Jie Zhou Learning Probabilistic Ordinal Embeddings for Uncertainty-Aware Regression IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021
- [8] Wanhua Li, Shiwei Wang, Jiwen Lu, Jianjiang Feng, and Jie Zhou Meta-Mining Discriminative Samples for Kinship Verification IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021

^{*} indicates equal contribution

[9]	Structure-Aware Face Clustering on a Large-Scale Graph with 10 ⁷ Nodes IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021	
[10]	Bingyao Yu, Wanhua Li, Xiu Li, Jiwen Lu, and Jie Zhou Frequency-Aware Spatiotemporal Transformers for Video Inpainting Detection IEEE International Conference on Computer Vision (ICCV), 2021	
[11]	Wanhua Li, Yueqi Duan, Jiwen Lu, Jianjiang Feng, and Jie Zhou Graph-Based Social Relation Reasoning European Conference on Computer Vision (ECCV), 2020	
[12]	Wanhua Li , Jiwen Lu, Jianjiang Feng, Chunjing Xu, Jie Zhou and Qi Tian BridgeNet: A Continuity-Aware Probabilistic Network for Age Estimation <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition</i> (<i>CVPR</i>), 2019	
[13]	Wanhua Li, Yingqiang Zhang, Kangchen Lv, Jiwen Lu, Jianjiang Feng, and Jie Zhou Graph-Based Kinship Reasoning Network IEEE International Conference on Multimedia and Expo (ICME), 2020, Oral Presentation	
[14]	Benchao Li, Wanhua Li , Yongyi Tang, Jian-Fang Hu, and Wei-Shi Zheng GL-PAM RGB-D Gesture Recognition <i>IEEE International Conference on Image Processing (ICIP)</i> , 2018	
Pe	er-Reviewed Journal Publications	
[15]	Shuai Shen, Wanhua Li , Zheng Zhu, Jie Zhou, and Jiwen Lu STAR-FC: Structure-Aware Face Clustering on Ultra-Large-Scale Graphs <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> (T-PAMI , <i>IF</i> : 24.31), 2023	
[16]	Shuai Shen*, Wanhua Li* , Xiaoke Huang*, Zheng Zhu, Jie Zhou, and Jiwen Lu SD-NeRF: Towards Lifelike Talking Head Animation via Spatially-adaptive Dual-driven N <i>IEEE Transactions on Multimedia</i> (<i>TMM</i>), 2023	eRFs
[17]	Bingyao Yu, Xiu Li, Wanhua Li , Jie Zhou, and Jiwen Lu Discrepancy-aware Meta-learning for Zero-shot Face Manipulation Detection <i>IEEE Transactions on Image Processing (TIP)</i> , 2023	
[18]	Wanhua Li, Jiwen Lu, Abudukelimu Wuerkaixi, Jianjiang Feng, and Jie Zhou MetaAge: Meta-Learning Personalized Age Estimators IEEE Transactions on Image Processing (TIP), 2022	
[19]	Hongyi Sun, Wanhua Li , Yueqi Duan, Jie Zhou, and Jiwen Lu Learning Adaptive Patch Generators for Mask-Robust Image Inpainting <i>IEEE Transactions on Multimedia</i> (<i>TMM</i>), 2022	
[20]	Wanhua Li, Jiwen Lu, Abudukelimu Wuerkaixi, Jianjiang Feng, and Jie Zhou Reasoning Graph Networks for Kinship Verification: from Star-shaped to Hierarchical IEEE Transactions on Image Processing (TIP), 2021	
Ta	ılks	
()	Learning Probabilistic Ordinal Embeddings for Uncertainty-Aware Regression Invited Presentation at 2021 Beijing University Academic Forum on Artificial Intelligence	April 2021
()	Graph-Based Kinship Reasoning Network CME'2020 Oral Presentation	July 2020
	BridgeNet: A Continuity-Aware Probabilistic Network for Age Estimation Invited Presentation at 2019 Beijing University Academic Forum on Artificial Intelligence	March 2019
Sc	holarships and Awards	
0 N	NeurIPS Scholar Award	2022
o I	CCV Doctoral Consortium Travel Award	2021
• V	Weihai Talent Scholarship, Tsinghua	2021
0 3	Brd Place in VIPriors Instance Segmentation Challenge at ICCV	2021

o Outstanding Oral Presentation at 2021 Beijing University Academic Forum on Artificial Intelligence

o 2nd Place in ChaLearn LAP Large-scale Isolated Gesture Recognition Challenge at ICCV

2021

2017

0	Outstanding Undergraduate Thesis, SYSU	2017
0	Outstanding Graduate, SYSU	2017
0	National Encouragement Scholarship, Ministry of Education of P.R. China	2016
0	National Scholarship, Ministry of Education of P.R. China	2015
0	National Scholarship, Ministry of Education of P.R. China	2014

Academic Services

Conference Reviewer / PC Member

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- AAAI Conference on Artificial Intelligence (AAAI)
- International Joint Conference on Artificial Intelligence (IJCAI)
- IEEE International Conference on Multimedia and Expo (ICME)
- IEEE International Conference on Image Processing (ICIP)
- International Conference on Pattern Recognition (ICPR)
- Chinese Conference on Pattern Recognition and Computer Vision (PRCV)

Journal Reviewer

- o IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Image Processing
- IEEE Transactions on Neural Networks and Learning Systems
- o IEEE Transactions on Circuits and Systems for Video Technology
- o IEEE Transactions on Biometrics, Behavior, and Identity Science
- IEEE Transactions on Cybernetics
- International Journal of Computer Vision
- IEEE Signal Processing Letters
- Pattern Recognition
- Neural Networks
- Neurocomputing
- Pattern Recognition Letters
- Knowledge-Based Systems
- Journal of Visual Communication and Image Representation