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

Beijing, China

Education

Department of Automation, Tsinghua University

Ph.D. in Computer Vision

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

B.E. in Computer Science

GPA: 4.0/4.0, Top 1/118

Guangzhou, China Aug. 2013 - Jun. 2017

Aug. 2017 - Jun. 2022

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

Horizon Robotics

Research intern

Jul. 2019 - Aug. 2019

Huawei Noah Ark's Lab

Research intern advised by Prof. Qi Tian

Oct. 2018 - Jun. 2019

iSEE Lab, Sun Yat-Sen University

Research assistant advised by Prof. Wei-Shi Zheng

Mar. 2016 - Jul. 2017

Publications

Peer-Reviewed Publications

- [1] Bingyao Yu, Xiu Li, Wanhua Li, Jie Zhou, and Jiwen Lu
 Discrepancy-aware Meta-learning for Zero-shot Face Manipulation Detection
 IEEE Transactions on Image Processing (TIP), 2023
- [2] 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
- [3] 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
- [4] 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
- [5] 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
- [6] Wanhua Li, Jiwen Lu, Abudukelimu Wuerkaixi, Jianjiang Feng, and Jie Zhou MetaAge: Meta-Learning Personalized Age Estimators *IEEE Transactions on Image Processing (TIP)*, 2022

^{*} indicates equal contribution

[8]	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	
[9]	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	
[10]	Shuai Shen, Wanhua Li , Zheng Zhu, Guan Huang, Dalong Du, Jiwen Lu, and Jie Zhou Structure-Aware Face Clustering on a Large-Scale Graph with 10⁷ Nodes <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2021	
[11]	Bingyao Yu, Wanhua Li , Xiu Li, Jiwen Lu, and Jie Zhou Frequency-Aware Spatiotemporal Transformers for Video Inpainting Detection <i>IEEE International Conference on Computer Vision (ICCV)</i> , 2021	
[12]	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	
[13]	Wanhua Li, Yueqi Duan, Jiwen Lu, Jianjiang Feng, and Jie Zhou Graph-Based Social Relation Reasoning European Conference on Computer Vision (ECCV), 2020	
[14]	Wanhua Li, Jiwen Lu, Jianjiang Feng, Chunjing Xu, Jie Zhou and Qi Tian BridgeNet: A Continuity-Aware Probabilistic Network for Age Estimation IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2019	
[15]	Wanhua Li , Yingqiang Zhang, Kangchen Lv, Jiwen Lu, Jianjiang Feng, and Jie Zhou Graph-Based Kinship Reasoning Network <i>IEEE International Conference on Multimedia and Expo (ICME)</i> , 2020, Oral Presentation	
[16]	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	
Ta	lks	
	earning Probabilistic Ordinal Embeddings for Uncertainty-Aware Regression nvited Presentation at 2021 Beijing University Academic Forum on Artificial Intelligence	April 2021
	Graph-Based Kinship Reasoning Network CME'2020 Oral Presentation	July 2020
_ E	BridgeNet: A Continuity-Aware Probabilistic Network for Age Estimation nvited Presentation at 2019 Beijing University Academic Forum on Artificial Intelligence	March 2019
Sc	holarships and Awards	
o N	NeurIPS Scholar Award	2022
o I	CCV Doctoral Consortium Travel Award	2021
o V	Veihai Talent Scholarship, Tsinghua	2021
o 3	rd Place in VIPriors Instance Segmentation Challenge at ICCV	2021
0 (Outstanding Oral Presentation at 2021 Beijing University Academic Forum on Artificial Intelligence	2021
o 2	nd Place in ChaLearn LAP Large-scale Isolated Gesture Recognition Challenge at ICCV	2017
0 (Outstanding Undergraduate Thesis, SYSU	2017
0 (Outstanding Graduate, SYSU	2017
o N	National Encouragement Scholarship, Ministry of Education of P.R. China	2016
o N	National Scholarship, Ministry of Education of P.R. China	2015
o N	National Scholarship, Ministry of Education of P.R. China	2014

[7] Hongyi Sun, **Wanhua Li**, Yueqi Duan, Jie Zhou, and Jiwen Lu

IEEE Transactions on Multimedia (TMM), 2022

Learning Adaptive Patch Generators for Mask-Robust Image Inpainting

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)
- o Chinese Conference on Pattern Recognition and Computer Vision (PRCV)

Journal Reviewer

- 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
- Pattern Recognition
- Neural Networks
- Neurocomputing
- o Pattern Recognition Letters
- Knowledge-Based Systems
- o Journal of Visual Communication and Image Representation