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

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] 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
- [2] 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
- [3] 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
- [4] 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
- [5] Wanhua Li, Jiwen Lu, Abudukelimu Wuerkaixi, Jianjiang Feng, and Jie Zhou MetaAge: Meta-Learning Personalized Age Estimators IEEE Transactions on Image Processing (TIP), 2022
- [6] Hongyi Sun, **Wanhua Li**, Yueqi Duan, Jie Zhou, and Jiwen Lu **Learning Adaptive Patch Generators for Mask-Robust Image Inpainting** *IEEE Transactions on Multimedia* (*TMM*), 2022

^{*} indicates equal contribution

	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	
[9]	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	
[10]	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	
[11]	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	
[12]	Wanhua Li, Yueqi Duan, Jiwen Lu, Jianjiang Feng, and Jie Zhou Graph-Based Social Relation Reasoning European Conference on Computer Vision (ECCV), 2020	
[13]	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	
[14]	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	
[15]	Benchao Li, Wanhua Li , Yongyi Tang, Jian-Fang Hu, and Wei-Shi Zheng GL-PAM RGB-D Gesture Recognition IEEE International Conference on Image Processing (ICIP), 2018	
Ta	ılks	
	Learning Probabilistic Ordinal Embeddings for Uncertainty-Aware Regression Invited Presentation at 2021 Beijing University Academic Forum on Artificial Intelligence	April 2021
• I	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	
• N	NeurIPS Scholar Award	2022
o I	CCV Doctoral Consortium Travel Award	2021
o V	Weihai Talent Scholarship, Tsinghua	2021
o 3	Brd 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	2nd 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
	National Scholarship, Ministry of Education of P.R. China	2015
	National Scholarship, Ministry of Education of P.R. China	2014
Ac	cademic Services	

[7] Wanhua Li, Xiaoke Huang, Jiwen Lu, Jianjiang Feng, and Jie Zhou

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
- o IEEE Transactions on Neural Networks and Learning Systems
- 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
- o Knowledge-Based Systems
- o Journal of Visual Communication and Image Representation