Wanhua Li

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Education

Department of Automation, Tsinghua University — Beijing, China
Aug 2017 - June 2022

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 — Guangzhou, China
Aug 2013 - June 2017

B.E. in Computer Science

GPA: 4.0/4.0, Top 1/118

Experiences

Huawei Noah Ark's Lab
Research intern advised by Prof. Qi Tian — *Oct 2018 - June 2019*

Horizon Robotics
Research intern — *July 2019 - Aug 2019*

iSEE Lab, Sun Yat-Sen University
Research assistant advised by Prof. Wei-Shi Zheng — *March 2016 - July 2017*

Publications

* indicates equal contribution

Peer-Reviewed Publications

[1] **Wanhua Li**, Jiwen Lu, Abudukelimu Wuerkaixi, Jianjiang Feng, and Jie Zhou
MetaAge: Meta-Learning Personalized Age Estimators
IEEE Transactions on Image Processing (**TIP**), 2022

[2] 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

[3] **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

[4] **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

[5] 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 10^7 Nodes
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021

[6] 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

[7] **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

[8] **Wanhua Li**, Yueqi Duan, Jiwen Lu, Jianjiang Feng, and Jie Zhou
Graph-Based Social Relation Reasoning
European Conference on Computer Vision (**ECCV**), 2020

[9] **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

[10] **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*

Technical Reports

[11] Pengyu Chen*, **Wanhua Li***
Data-Efficient Instance Segmentation with a Single GPU
3rd Place Solution on Instance Segmentation Track of ICCV 2021 VIPriors Challenges

[12] Benchao Li, **Wanhua Li**, Yongyi Tang, Jian-Fang Hu, and Wei-Shi Zheng
GL-PAM RGB-D Gesture Recognition
2nd Place Solution in the ChaLearn LAP Large-scale Isolated Gesture Recognition Challenge

Talks

○ **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**
ICME'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*

Scholarships and Awards

○ ICCV Doctoral Consortium Travel Award	*2021*
○ **Weihai Talent Scholarship, Tsinghua**	*2021*
○ **3rd Place in VIPriors Instance Segmentation Challenge at ICCV**	*2021*
○ Outstanding Oral Presentation at 2021 Beijing University Academic Forum on Artificial Intelligence	*2021*
○ **2nd Place in ChaLearn LAP Large-scale Isolated Gesture Recognition Challenge at ICCV**	*2017*
○ Outstanding Undergraduate Thesis, SYSU	*2017*
○ Outstanding Graduate, SYSU	*2017*
○ 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*

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)

Journal Reviewer

○ IEEE Transactions on Pattern Analysis and Machine Intelligence

○ IEEE Transactions on Image Processing

○ IEEE Transactions on Neural Networks and Learning Systems

○ IEEE Transactions on Circuits and Systems for Video Technology

○ IEEE Transactions on Biometrics, Behavior, and Identity Science

- IEEE Transactions on Cybernetics
- Pattern Recognition
- Neural Networks
- Neurocomputing
- Pattern Recognition Letters
- Journal of Visual Communication and Image Representation