Wanhua Li

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Education

Department of Automation, Tsinghua University — Beijing, China — *Aug 2017 - June 2022(Expected)*

 PhD student 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] 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*

[2] **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*

[3] **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*

[4] 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*

[5] 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*

[6] **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*

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

[8] **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*

[9] **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

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

[11] 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
- Pattern Recognition
- Neural Networks

- Neurocomputing
- Pattern Recognition Letters
- Journal of Visual Communication and Image Representation