

Wanhua Li

✉ wanhua016@gmail.com • 🌐 li-wanhua.github.io

Education

Department of Automation, Tsinghua University

PhD student in Computer Vision

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

GPA: 3.9/4.0, Top 1/76

Beijing, China

Aug 2017 - June 2022 (Expected)

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 - June 2017

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