WENHAO LI

School of Computer Science, Peking University

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◇ Homepage ◇ Google Scholar ◇ GitHub

EDUCATION

Final Year Ph.D. Student in Computer Science 2019.09 - 2024.06
Peking University, China, Advisor: Prof. Hong Liu

Bachelor of Engineering in Electrical Engineering and Automation 2015.09 - 2019.06
Ningbo University, China, Rank: 1/63

Visiting Ph.D. Student 2023.07 - 2024.03
University of Trento, Italy, Advisor: Prof. Nicu Sebe

RESEARCH INTEREST

Computer Vision and Deep Learning
3D Human Pose Estimation (3D HPE); Human Mesh Recovery (HMR)

PUBLICATIONS

1. **Wenhao Li**, Mengyuan Liu, Hong Liu, Pichao Wang, Jialun Cai, Nicu Sebe. Hourglass Tokenizer for Efficient Transformer-Based 3D Human Pose Estimation. *IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2024.

2. **Wenhao Li**, Hong Liu, Hao Tang, Pichao Wang, Luc Van Gool. MHFormer: Multi-Hypothesis Transformer for 3D Human Pose Estimation. *IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2022. (**230+ Google Scholar Citations and 500+ GitHub Stars**)

3. **Wenhao Li**, Hong Liu, Runwei Ding, Mengyuan Liu, Pichao Wang, Wenming Yang. Exploiting Temporal Contexts with Strided Transformer for 3D Human Pose Estimation. *IEEE Transactions on Multimedia (**TMM**)*, 2022. (**200+ Google Scholar Citations and 330+ GitHub Stars**)

4. **Wenhao Li**, Hong Liu, Hao Tang, Pichao Wang. Multi-Hypothesis Representation Learning for Transformer-Based 3D Human Pose Estimation. *Pattern Recognition (**PR**)*, 2023.

5. Yingxuan You, Hong Liu, Ti Wang, **Wenhao Li**, Runwei Ding, Xia Li. Co-Evolution of Pose and Mesh for 3D Human Body Estimation from Video. *IEEE International Conference on Computer Vision (**ICCV**)*, 2023.

6. Tianyu Guo, Mengyuan Liu, Hong Liu, Guoquan Wang, **Wenhao Li**. Improving Self-Supervised Action Recognition from Extremely Augmented Skeleton Sequences. *Pattern Recognition (**PR**)*, 2024.

7. Tao Wang, Mengyuan Liu, Hong Liu, **Wenhao Li**, Miaoju Ban, Tuanyu Guo, Yidi Li. Feature Completion Transformer for Occluded Person Re-identification. *IEEE Transactions on Multimedia (**TMM**)*, 2024.

8. Jianbing Wu, Hong Liu, Wei Shi, Mengyuan Liu, **Wenhao Li**. Style-Agnostic Representation Learning for Visible-Infrared Person Re-identification. *IEEE Transactions on Multimedia (**TMM**)*, 2023.

9. Guoliang Hua, Hong Liu, **Wenhao Li**, Qian Zhang, Runwei Ding, Xin Xu. Weakly-supervised 3D Human Pose Estimation with Cross-view U-shaped Graph Convolutional Network. *IEEE Transactions on Multimedia (**TMM**)*, 2022.

10. Jialun Cai, Hong Liu, Runwei Ding, **Wenhao Li**, Jianbing Wu, Miaoju Ban. HTNet: Human Topology Aware Network for 3D Human Pose Estimation. *IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**)*, 2023.

11. Yingxuan You, Hong Liu, Xia Li, **Wenhao Li**, Ti Wang, Runwei Ding. GATOR: Graph-Aware Transformer with Motion-Disentangled Regression for Human Mesh Recovery from a 2D Pose. *IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**)*, 2023.

12. Ti Wang, Hong Liu, Runwei Ding, **Wenhao Li**, Yingxuan You, Xia Li. Interweaved Graph and Attention Network for 3D Human Pose Estimation. *IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**)*, 2023.

OPEN SOURCE

Codes and models for my published papers are available on GitHub:

- https://github.com/Vegetebird/MHFormer (CVPR 2022, **500+ Stars**)
- https://github.com/Vegetebird/StridedTransformer-Pose3D (TMM 2022, **330+ Stars**)
- https://github.com/NationalGAILab/HoT (CVPR 2024)

REVIEW SERVICES

- Conference: CVPR, ICCV, ECCV, ICLR, NeurIPS, IJCAI
- Journal: TIP, TMM, TCSVT

AWARDS & HONORS

- National Scholarship (**Top 2%**) 2022
- Merit Student Pacesetter of PKU (**Top 3%**) 2022
- Outstanding Graduates of Zhejiang (**Top 1%**) 2019
- Outstanding Undergraduate Thesis Award (**TOP 5%**) 2019
- President Scholarship (**Top 10, highest school honor**) 2018
- National Scholarship (**Top 1%**) 2017
- National Scholarship (**Top 1%**) 2016
- **Meritorious Winner** in Mathematical Contest in Modeling (MCM) 2018
- **First Prize** in National Undergraduate Electronic Design Contest 2017
- **First Prize** in China Undergraduate Mathematics Competition (CMC) 2016
- **Second Prize** in China Undergraduate Mathematical Contest in Modeling (CUMCM) 2017
- **Second Prize** in China Undergraduate Mathematical Contest in Modeling (CUMCM) 2016
- **First Place** in Zhejiang Undergraduate Electronic Design Contest 2018
- **First Place** in Zhejiang Undergraduate Robot Contest 2017
- **First Prize** in Zhejiang Undergraduate Advanced Mathematics Competition 2016
- **First Prize** in Zhejiang Undergraduate Physics Contest 2016

TECHNICAL SKILLS

Computer Languages	Python, MATLAB, C/C++
Software & Tools	PyTorch, LaTeX