

# WENHAO LI

School of Computer Science, Peking University

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◇ Phone: +86 15919445058 ◇ Birth: 1996, Zhejiang

## RESEARCH INTEREST

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### Computer Vision and Deep Learning

3D Human Pose and Shape Estimation in images/videos

## EDUCATION

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### Fifth-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

## PUBLICATIONS

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1. **Wenhao Li**, Hong Liu, Hao Tang, Pichao Wang, and Luc Van Gool. MHFormer: Multi-Hypothesis Transformer for 3D Human Pose Estimation. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022. (**130+ citations and 440+ stars**)
2. **Wenhao Li**, Hong Liu, Runwei Ding, Mengyuan Liu, Pichao Wang, and Wenming Yang. Exploiting Temporal Contexts with Strided Transformer for 3D Human Pose Estimation. *IEEE Transactions on Multimedia (TMM)*, 2022. (**120+ citations and 310+ stars**)
3. **Wenhao Li**, Hong Liu, Hao Tang, and Pichao Wang. Multi-Hypothesis Representation Learning for Transformer-Based 3D Human Pose Estimation. *Pattern Recognition (PR)*, 2023.
4. Yingxuan You, Hong Liu, Ti Wang, **Wenhao Li**, Runwei Ding, and Xia Li. Co-Evolution of Pose and Mesh for 3D Human Body Estimation from Video. *IEEE International Conference on Computer Vision (ICCV)*, 2023.
5. 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.
6. Guoliang Hua\*, Hong Liu, **Wenhao Li\***, Qian Zhang, Runwei Ding, and Xin Xu. Weakly-supervised 3D Human Pose Estimation with Cross-view U-shaped Graph Convolutional Network. *IEEE Transactions on Multimedia (TMM)*, 2022.
7. Jialun Cai, Hong Liu, Runwei Ding, **Wenhao Li**, Jianbing Wu, and Miaoju Ban. HTNet: Human Topology Aware Network for 3D Human Pose Estimation. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2023.
8. Yingxuan You, Hong Liu, Xia Li, **Wenhao Li**, Ti Wang, and 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.
9. Ti Wang, Hong Liu, Runwei Ding, **Wenhao Li**, Yingxuan You, and 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

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Codes and models for my published papers are available on [my GitHub](#):

- <https://github.com/Vegetebird/MHFormer> (**440+** stars)
- <https://github.com/Vegetebird/StridedTransformer-Pose3D> (**310+** stars)

## REVIEW SERVICES

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- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- IEEE International Conference on Computer Vision (ICCV)
- International Conference on Learning Representations (ICLR)
- Conference on Neural Information Processing Systems (NeurIPS)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

## AWARDS & HONORS

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

## TECHNICAL SKILLS

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<b>Computer Languages</b>	Python, MATLAB, C/C++
<b>Software &amp; Tools</b>	PyTorch, LaTeX

# 李文豪

北京大学，计算机学院

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## 📍 研究方向

深度学习、计算机视觉、基于图像或视频的三维人体姿态与形态估计

## 🎓 教育背景

北京大学	2019.09 – 2024.06
博士研究生五年级在读 计算机应用技术，导师：刘宏教授	
宁波大学	2015.09 – 2019.06
学士 自动化（阳明创新班），排名: 1/63	
University of Trento	2023.07 – 2024.03
访问博士生，导师：Prof. Nicu Sebe	

## 📄 论文发表

1. **Wenhao Li**, Hong Liu, Hao Tang, Pichao Wang, and Luc Van Gool. MHFormer: Multi-Hypothesis Transformer for 3D Human Pose Estimation. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022. (130+ citations and 440+ stars)
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5. 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.
6. Guoliang Hua\*, Hong Liu, **Wenhao Li\***, Qian Zhang, Runwei Ding, and Xin Xu. Weakly-supervised 3D Human Pose Estimation with Cross-view U-shaped Graph Convolutional Network. *IEEE Transactions on Multimedia (TMM)*, 2022.
7. Jialun Cai, Hong Liu, Runwei Ding, **Wenhao Li**, Jianbing Wu, and Miaoju Ban. HTNet: Human Topology Aware Network for 3D Human Pose Estimation. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2023.
8. Yingxuan You, Hong Liu, Xia Li, **Wenhao Li**, Ti Wang, and 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.
9. Ti Wang, Hong Liu, Runwei Ding, **Wenhao Li**, Yingxuan You, and Xia Li. Interweaved Graph and Attention Network for 3D Human Pose Estimation. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2023.

## 📄 开源代码

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发表论文的代码和模型开源在我的 [GitHub](#):

- <https://github.com/Vegetebird/MHFormer> (440+ stars)
- <https://github.com/Vegetebird/StridedTransformer-Pose3D> (310+ stars)

## 📖 审稿人

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- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- IEEE International Conference on Computer Vision (ICCV)
- International Conference on Learning Representations (ICLR)
- Conference on Neural Information Processing Systems (NeurIPS)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

## 🏆 奖项与荣誉

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|------------------------|------|
| – 国家奖学金 (2%)           | 2022 |
| – 北京大学三好学生标兵 (3%)      | 2022 |
| – 浙江省优秀毕业生 (1%)        | 2019 |
| – 优秀本科论文奖 (5%)         | 2019 |
| – 校长奖学金 (10 人, 学校最高荣誉) | 2018 |
| – 国家奖学金 (1%)           | 2017 |
| – 国家奖学金 (1%)           | 2016 |
| – 美国大学生数学建模竞赛国际一等奖     | 2018 |
| – 全国大学生电子设计竞赛国家一等奖     | 2017 |
| – 全国大学生数学竞赛国家一等奖       | 2016 |
| – 全国大学生数学建模竞赛国家二等奖     | 2017 |
| – 全国大学生数学建模竞赛国家二等奖     | 2016 |
| – 浙江省大学生电子设计竞赛一等奖      | 2018 |
| – 浙江省大学生机器人竞赛一等奖 (冠军)  | 2017 |
| – 浙江省大学生高等数学竞赛一等奖      | 2016 |
| – 浙江省大学生物理创新竞赛一等奖      | 2016 |

## ⚙️ 技能

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编程语言	Python, MATLAB, C/C++
软件工具	PyTorch, LaTeX