

# 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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### Fourth-Year Ph.D. Student in Computer Science

2019 - Present

Peking University, China, Advisor: Prof. Hong Liu

### Bachelor of Engineering in Electrical Engineering and Automation

2015 - 2019

Ningbo University, China, Rank: 1/63

## PUBLICATIONS

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1. **Wenhao Li**, Hong Liu, Hao Tang, and Pichao Wang. Multi-Hypothesis Representation Learning for Transformer-Based 3D Human Pose Estimation. Pattern Recognition (**PR**), 2023.
2. **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: 13147-13156.
3. **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.
4. 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.
5. Jialun Cai, Hong Liu, Runwei Ding, **Wenhao Li**, Jianbing Wu, and Miaoju Ban. HTNet: Human Topology Aware Network for 3D Human Pose Estimation. IEEE Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), 2023.
6. 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 Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), 2023.
7. Ti Wang, Hong Liu, Runwei Ding, **Wenhao Li**, Yingxuan You, and Xia Li. Interweaved Graph and Attention Network for 3D Human Pose Estimation. IEEE 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> (**380+** stars)
- <https://github.com/Vegetebird/StridedTransformer-Pose3D> (**280+** stars)

## REVIEW SERVICES

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- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- IEEE International Conference on Computer Vision (ICCV)
- 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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☎ +86 15919445058    🏠 1996, 浙江

## 📍 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 – 至今

博士研究生四年级在读 计算机应用技术，导师：刘宏教授

宁波大学 2015 – 2019

学士 自动化（阳明创新班），排名: 1/63

## 📄 论文发表

1. **Wenhao Li**, Hong Liu, Hao Tang, and Pichao Wang. Multi-Hypothesis Representation Learning for Transformer-Based 3D Human Pose Estimation. Pattern Recognition (PR), 2023.
2. **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: 13147-13156.
3. **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.
4. 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.
5. Jialun Cai, Hong Liu, Runwei Ding, **Wenhao Li**, Jianbing Wu, and Miaoju Ban. HTNet: Human Topology Aware Network for 3D Human Pose Estimation. IEEE Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.
6. 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 Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.
7. Ti Wang, Hong Liu, Runwei Ding, **Wenhao Li**, Yingxuan You, and Xia Li. Interweaved Graph and Attention Network for 3D Human Pose Estimation. IEEE Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.

## 📄 开源代码

发表论文的代码和模型开源在我的 GitHub:

- <https://github.com/Vegetebird/MHFormer> (380+ stars)
- <https://github.com/Vegetebird/StridedTransformer-Pose3D> (280+ stars)

## 审稿人

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- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- IEEE International Conference on Computer Vision (ICCV)
- 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