李文博 | 硕士研究生

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中国科学院大学深圳先进技术研究院　劳特伯生物医学成像研究中心

教育经历

2021.09 - 至今　中国科学院大学 计算机技术　硕士 (导师: 胡战利; **GPA: 3.71/4.00**)

2017.09-2021.06　天津工业大学　电子信息技术　学士 (**专业排名：1/120**)

英语水平：CET-4, CET-6

学业奖励

- 2023 年度研究生**“国家奖学金”**
- 2022-2023 学年中国科学院大学**“三好学生”**
- 2023 年度第二十五届中国国际高新技术成果交易会**“优秀产品奖”**

已发表的期刊文章

[1] **Wenbo Li#(李文博)**, Zhenxing Huang#, Zixiang Chen, Chao Zhou, Xu Zhang, Wei Fan, Lulu Zhan, Hairong Zheng, Dong Liang, Zhanli Hu*, “Learning CT-free attenuation-corrected total-body PET images through deep learning”, ***European Radiology,*** accepted, 2024. (**放射学顶刊**，JCR 1 区，IF=5.9)

[2] Zhenxing Huang#, **Wenbo Li#(李文博)**, Yaping Wu#, Nannan Guo, Lin Yang, Na Zhang, Zhifeng Pang, Yongfeng Yang, Yun Zhou, Yue Shang, Hairong Zheng, Dong Liang, Meiyun Wang*, Zhanli Hu*, “Short-axis PET image quality improvement based on an explorer total-body PET system through deep learning”, ***European Journal of Nuclear Medicine and Molecular Imaging***, 51: 27-39, 2023. (**核医学顶刊**，JCR 1 区，IF=9.1)

[3] **Wenbo Li#(李文博)**, Zhenxing Huang#, Chao Zhou, Xu Zhang, Wei Fan, Dong Liang, Zhanli Hu*, “Adaptive 3D noise level-guided restoration network for low-dose PET imaging”, ***Interdisciplinary Medicine,*** 1: e20230012, 2023. (**交叉医学知名期刊**，“封面文章”)

[4] Zhenxing Huang#, **Wenbo Li#(李文博)**, Meng-xiao Geng, Zhou Liu, Qiyang Zhang, Yuxi Jin, Ruodai Wu, Guotao Quan, Dong Liang, Zhanli Hu, Na Zhang*, “MLNAN: Multi-level Noise-aware Network for Low-dose CT Imaging Implemented with Constrained Cycle Wasserstein Generative Adversarial Networks”, ***Artificial Intelligence In Medicine***, 143:102609, 2023. (**医学图像成像知名期刊**，JCR 1 区，IF=7.5)

[5] Zhenxing Huang#, Han Liu#, Yaping Wu#, **Wenbo Li(李文博)**, Jun Liu, Ruodai Wu, Jianmin Yuan, Qiang He, Zhe Wang, Ke Zhang, Dong Liang, Zhanli Hu, Meiyun Wang*, Na Zhang*, “Automatic brain structure segmentation for ^{18}F-fluorodeoxyglucose positron emission tomography/magnetic resonance images via deep learning”, ***Quantitative Imaging in Medicine and Surgery,*** 13(7): 4447-4462, 2023. (**医学图像成像知名期刊**，JCR 2 区，IF=2.9)

⛃ 已发表的会议文章

[1] **Wenbo Li (李文博)**, Zhenxing Huang, Haiyan Wang, Chao Zhou, Xu Zhang, Wei Fan, Zhanli Hu*, "A 3D noise-level-aware network for low-dose PET imaging", ***2023 SNMMI Annual Meeting***, 口头报告, 2023.

[2] **Wenbo Li (李文博)**, Zhenxing Huang, Yaping Wu, Lin Yan, Yongfeng Yang, Dong Liang, Meiyun Wan, Zhanli Hu*, "Integrated PET/MRI-based automatic brain structure segmentation through deep learning", ***2023 IEEE Nuclear Science Symposium and Medical Imaging Conference***, 海报, 2023.

[3] **Wenbo Li (李文博)**, Zhenxing Huan, Chao Zhou, Xu Zhang, Wei Fan, Lin Yang, Mengxiao Geng, Yongfeng Yang, Dong Liang, Zhanli Hu*, "Considering anatomical priors for total-body positron emission tomography attenuation correction through deep learning", ***2023 IEEE Nuclear Science Symposium and Medical Imaging Conference***, 海报, 2023.

[4] **Wenbo Li (李文博)**, Zhenxing Huang, Lin Yang, Mengxiao Geng, Chao Zhou, Xu Zhang, Wei Fan, Dong Liang, Zhanli Hu*, "Attenuation correction for total-body positron emission tomography by exploiting anatomical priors", ***2023 Radiological Society of North America Annual Meeting***, 海报, 2023.

⛃ 在投的期刊文章

[1] **Wenbo Li[#](李文博)**, Zhenxing Huang[#], Yanhua Duan[#], Haiyan Wan, Yongfeng Yang, Hairong Zheng, Dong Lian, Zhaoping Cheng*, Zhanli Hu*, "Toward a dual dose reduction strategy of a total-body PET/CT system for attenuation-corrected PET imaging via deep learning". (***Medical Physics - Under View***)

[3] **Wenbo Li[#](李文博)**, Zhenxing Huang[#], Wenjie Zhao, Yaping Wu, Jianming Yuan, Yang Yang, Yan Zhang, Yongfeng Yang, Hairong Zheng, Dong Liang, Meiyun Wang*, Zhanli Hu*, "Accurate whole-brain segmentation for bimodal PET/MR images via a cross-attention mechanism: a retrospective and quantitative study". (**文章在投**)

[2] Zhenxing Huang[#], **Wenbo Li[#](李文博)**, Yaping Wu, Lin Yang, Zhihua L, Yun Dong, Yongfeng Yang, Hairong Zheng, Dong Liang, Meiyun Wang *, Zhanli Hu*, "Accurate whole-brain image enhancement for low-dose integrated PET/MR imaging through spatial brain transformation". (***IEEE JBHI - Under View***)

⛃ 专利申请

[1] 模型训练方法、无 CT 的 PET 图像衰减校正方法及装置 (**排名：2/6,** 申请号: CN202311404754.9)

[2] 针对 PET/CT 系统的双低剂量衰减校正方法、系统 (**排名：3/6，** 申请号: CN202311192299.0)

[3] 一种低剂量 PET 图像增强方法及系统（**排名：3/6,** 申请号: CN202311356391.6）

⛃ 社会实践

✧ 连续两年担任**医工所影像中心 4 班班长**，积极组织班内活动；

✧ 作为党员积极参与党组织活动，学习和弘扬红色精神。

⛃ 成果推广

✧ 研究成果在**中国科学院英文官方网站、*Interdisciplinary Medicine* 期刊官方公众号、联影科研成果官方宣传平台**等宣传推广，并得到**国际官方媒体**转载报道。