

Jiawei Li

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Summary

I'm a Ph.D. student of Computer Science in College of Intelligence and Computing in Tianjin University. My research interest is **AI IN HEALTH CARE**, include Bioinformatics (Multi Omics), Cheminformatics (Drug AI) and Medical Image Analysis. My skills include Deep Learning, Machine Learning and Data Visualization (R, Python).

Education

Tianjin University, Tianjin, China
Ph.D., Computer Science, 2025
M.S., Computer Science, 2021
Tianjin University of Technology, Tianjin, China
B.S., Computer Science, 2018

Employment

Tencent Technology, Shenzhen, China
Researcher, 2022.5 - 2023.5
Huawei Technology, Beijing, China
R&D Engineer, 2021.1 - 2021.8
Sangfor Technology, Shenzhen, China
R&D Engineer, 2020.6 - 2020.8

Publication

More details, please ref to [Google Scholar](#)

Refereed Journal Articles

1. Li, Jiawei, Yuqian Pu, Jijun Tang, Quan Zou, and Fei Guo. "DeepAVP: a dual-channel deep neural network for identifying variable-length antiviral peptides." *IEEE Journal of Biomedical and Health Informatics* 24, no. 10 (2020): 3012-3019.
2. Li, Jiawei, Yuqian Pu, Jijun Tang, Quan Zou, and Fei Guo. "DeepATT: a hybrid category attention neural network for identifying functional effects of DNA sequences." *Briefings in Bioinformatics* 22, no. 3 (2021): bbaa159.

3. Pu, Yuqian, Jiawei Li, Jijun Tang, and Fei Guo. "DeepFusionDTA: drug-target binding affinity prediction with information fusion and hybrid deep-learning ensemble model." *IEEE/ACM Transactions on Computational Biology and Bioinformatics* 19, no. 5 (2021): 2760-2769.
4. Ding, Jiaqi, Jie Song, Jiawei Li, Jijun Tang, and Fei Guo. "Two-stage deep neural network via ensemble learning for melanoma classification." *Frontiers in Bioengineering and Biotechnology* 9 (2022): 758495.
5. Lyu, YINUO, Zhen Zhang, Jiawei Li, Wenying He, Yijie Ding, and Fei Guo. "Enhancer-kl: a novel two-layer predictor for identifying enhancers by position specific of nucleotide composition." *IEEE/ACM Transactions on Computational Biology and Bioinformatics* 18, no. 6 (2021): 2809-2815.
6. Jiang, Limin, Hui Yu, Jiawei Li, Jijun Tang, Yan Guo, and Fei Guo. "Predicting MHC class I binder: existing approaches and a novel recurrent neural network solution." *Briefings in Bioinformatics* 22, no. 6 (2021): bbab216.
7. Wang, Fang, Chunpu Liu, Jiawei Li, Fan Yang, Jiangning Song, Tianyi Zang, Jianhua Yao, and Guohua Wang. "SPDB: a comprehensive resource and knowledgebase for proteomic data at the single-cell resolution." *Nucleic Acids Research* 52, no. D1 (2024): D562-D571.
8. Ma, Ke, Jiawei Li, Mengyuan Zhao, Ibrahim Zamit, Bin Lin, Fei Guo, and Jijun Tang. "PPRTGI: A Personalized PageRank Graph Neural Network for TF-target Gene Interaction Detection." *IEEE/ACM Transactions on Computational Biology and Bioinformatics* (2024).

Refereed Conference Articles

9. Song, Jie, Jiawei Li, Shiqiang Ma, Jijun Tang, and Fei Guo. "Melanoma classification in dermoscopy images via ensemble learning on deep neural network." In *2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, pp. 751-756. IEEE, 2020.
10. Li, Jiawei, Fan Yang, Fang Wang, Yu Rong, Peilin Zhao, Shizhan Chen, Jianhua Yao, Jijun Tang, and Fei Guo. "Integrating Prior Knowledge with Graph Encoder for Gene Regulatory Inference from Single-cell RNA-Seq Data." In *2022 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, pp. 102-107. IEEE, 2022.
11. Li, Jiawei, Shizhan Chen, Shiqiang Ma, Fei Guo, and Jijun Tang. "MixUNet: Mix the 2D and 3D Models for Robust Medical Image Segmentation." In *2023 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, pp. 1242-1247. IEEE, 2023.