

Yichong Wang

Dept. of Biomedical Engineering, Zhejiang University, Hangzhou, China

🏠 Portfolio | ✉️ pinkr1ver@gmail.com | 📷 PinkR1ver

Research Interests

Biomedical signal processing, medical imaging, radiogenomics, machine learning for clinical decision support, and ultra-wideband radar sensing for biomedical applications.

Education

Aug. 2022 – 2025	Zhejiang University M.S. in Biomedical Engineering Advisor: Dr. Gangmin Ning
Jul. 2021 – May 2022	National University of Singapore Exchange Student / Final Year Project Instructors: Dr. Dan Wu, Dr. Zhiwei Huang
Aug. 2018 – Jun. 2022	Zhejiang University B.S. in Biomedical Engineering Minor in Intensive Training Program of Innovation and Entrepreneurship

Research Experience

2023 – 2024	VNA-Emulated IR-UWB Radar for Time-of-Flight Ranging Built a frequency-domain UWB emulation workflow with VNA S-parameters, IFFT reconstruction, system-delay calibration, and TOF-based range estimation.
2021 – 2022	Radiogenomic Analysis of Glioblastoma Developed an MRI-to-molecular-subtype pipeline using lesion segmentation, radiomics feature extraction, and machine-learning classification.
2024 – 2025	Video-Oculography Enhanced STANDING Protocol Contributed to multimodal analysis for stroke detection in isolated vertigo or dizziness, including feature analysis and manuscript preparation.

Peer-reviewed Conference Publications

ICECET 2024	Yichong Wang , Mengfei Jiang, Daoyuan Wang, Gangmin Ning, “Antenna Delay Calibration in an IR-UWB Radar Simulated by Vector Network Analyzer,” the 4th International Conference on Electrical, Computer and Energy Technologies, 2024. [Paper]
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Peer-reviewed Journal Publications

J. Neurol. 2025	Yichong Wang , Wenlei Ren, Daoyuan Wang, Lei Sun, Wenting Guo, Liping Du, Tianming Shi, Gangmin Ning, “Video-Oculography Enhanced STANDING Protocol for Stroke Detection in Isolated Vertigo or Dizziness,” Journal of Neurology, 2025. Submitted.
Biocybern. Biomed. Eng. 2025	Lei Sun, Xiang Geng, Yichong Wang , Daoyuan Wang, Xin Ma, Gangmin Ning, “Hemodynamic simulation for plantar arteries by anatomical structure based mathematical model,” Biocybernetics and Biomedical Engineering, 2025. [Paper]

J. Biomech. Eng.
2024 Daoyuan Wang, Yang Tang, Shengqian Xu, **Yichong Wang**, Jingtao Yu, Zenghui Gu, Gangmin Ning, “A Feasible Low-Cost System for Kinematic and Kinetic Analysis of Sit-to-Stand Movement,” Journal of Biomechanical Engineering, 2024. [\[Paper\]](#)

Honors & Awards

2025	Outstanding Graduate of Zhejiang University for Master’s Degree
2023	Award of Honor for Graduate
2022	Outstanding Graduate of Zhejiang University for Bachelor’s Degree
2019	Zhejiang University Scholarship – Third Prize

Skills

Programming	Python, MATLAB, C, HTML/CSS/JavaScript
Machine Learning	PyTorch, scikit-learn, radiomics workflows, segmentation and classification
Biomedical Signal Processing	UWB radar signal processing, VNA S-parameters, FFT/IFFT, TOF estimation
Medical Imaging	MRI preprocessing, lesion segmentation, radiomics feature extraction