

Yang Yang

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Address: 182 Minyuan Road, Hongshan District, Wuhan, China

Education

South-Central Minzu University

M.S. in Computer Technology

Wuhan, China
Sep 2024 – Jun 2027 (expected)

South-Central Minzu University

B.E. in Network Engineering

Wuhan, China
Sep 2020 – Jun 2024

Research Interests

Computer Vision, Medical Image Segmentation, Medical Image Analysis, Multimodal Learning

Publications

- **Yang Yang**, Yuxin Hong, Wenjie Yu, Xiao Zhang, Bo Yang, Meng Shi, Yangguang Sun, Jun Wang, Jianlin Zhu*, *HSPFN-Det: An Effective Model for Detecting Rice Pests and Diseases*. (TVC), 2025. (Accepted) [Paper]
- **Yang Yang**, Jianlin Zhu, Bo Yang, Xiao Zhang, Jin Huang, *An Improved YOLOv8-Based Rice Pest and Disease Detection Method*. (CGI), 2024. (Accepted) [Paper]
- **Yang Yang**, Xiao Zhang, Jianlin Zhu, et al., *Background as Parts: Sub-Background Modeling for Uncertainty-Aware Semi-Supervised Medical Image Segmentation*. (Under Review)
- **Yang Yang**, Xiao Zhang, Jianlin Zhu, et al., *Learning Symmetric Cross-Modal Representations via Feature Distillation and Contrastive Fusion for Brain Tumor Segmentation*. (Under Review)

Research Experience

Research on the Construction of a Data–Mechanism Integrated Virtual Model for Fire Evolution

Jul 2024 – Nov 2024 | Wuhan and Shanghai, China

- Prepare a project proposal that uses Unity 3D to model selected ship compartments, employs PyroSim to analyze fire evolution, and proposes a ship fire evolution model.
- Applied physics-informed neural networks (PINNs) to model ship fire evolution and support early-warning and risk assessment for compartment fire scenarios.

Selected Honors & Awards

- First-class Academic Scholarship for Graduate Students (*TOP 1*) Sept 2025
- Outstanding Graduate Student Sept 2025
- Second-class Academic Scholarship for Graduate Students Sept 2024

Skills

Languages: Mandarin Chinese, English

Technical Skills: Python, C/C++, L^AT_EX; PyTorch; Git, Linux

Services

Reviewer: ACM MM, Expert Systems With Applications, CGI 2024, Journal of Computer-Aided Design & Computer Graphics