

# Zirong Liu

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## RESEARCH INTERESTS

Ophthalmic artificial intelligence; Medical Image Processing; 3D Reconstruction.

## EDUCATION

2022- Now | Master<sup>1,2</sup> | BME & CS (Joint student) | GPA:3.26/4.0

- 1.Wenzhou Medical University(WMU), Electronic Information (Biomedical Engineering Direction);
- 2.Southern University of Science and Technology (SUSTech), Department of Computer Science and Engineering;

2018-2022 | Bachelor | Biomedical Engineering | GPA:3.0/4.0

- Sanquan College of Xinxiang Medical University

## EXPERIENCE

- Shanghai United Imaging Healthcare Co., Ltd. MRI Process engineer intern (2022.1-2022.5)

## PUBLICATIONS

- **Liu Z**, Hu Y, Qiu Z, et al. Cross-modal attention network for retinal disease classification based on multi-modal images[J]. Biomedical Optics Express, 2024, 15(6): 3699-3714. [Paper](#)
- Jiang H, Gao M, **Liu Z**, et al. GlanceSeg: Real-time microaneurysm lesion segmentation with gaze-map-guided foundation model for early detection of diabetic retinopathy[J]. IEEE Journal of Biomedical and Health Informatics, 2024. [Paper](#)
- Zhou D, Hu Y, Qiu, **Liu Z**, et al. Retinal layers changes in patients with age-related macular degeneration treated with intravitreal anti-VEGF agents[J]. BMC ophthalmology, 2023, 23(1): 451. [Paper](#)

## PROJECTS

- “Project Intelligent Therapeutic Massage Chair Design Based on Ultrasound Detection of Spinal Curvature supported by National Training Program of Innovation and Entrepreneurship for Undergraduates” (Project No: 202013505002) (Project Leader) 2022

## HONORS & AWARDS

- National Encouragement scholarship 2021
- Second Class of Academic Scholarship at WMU 2022
- Second Class of Academic Scholarship at WMU 2023
- Outstanding Graduates of Henan Province 2022
- Merit Student of Henan Province 2021
- Excellent Student Cadre of Henan Province 2020
- The 7th National Undergraduate Basic Medical Science Innovation and Experiment Design Forum  
National Silver Award 2021
- National College Students' Intelligent Technology Application Competition  
National First Prize (two awards) 2021

## TECHNICAL SKILLS

- Coding: Python, C/C++, Java, Shell, SQL, HTML
- Tools: PyTorch, Tensorflow, Git, LATEX, Markdown, Vim