

Zirong Liu

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RESEARCH INTERESTS

Ophthalmic Artificial Intelligence; Deep Learning;
Medical Image Processing; Large Model.

EDUCATION

2022- Now | Master^{1,2} | 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

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
- "Project Ultrasound Imaging-Based System for Spinal Curvature Detection and Analysis supported by University-Level Undergraduate Research Initiative" (Project No: 2019008ZC)(Project Leader) 2019

EXPERIENCE

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

HONORS & AWARDS

National Level

- [1] National Endeavor Scholarship, Academic Year 2020–2021
- [2] 7th National Undergraduate Basic Medical Innovation Research and Experimental Design Forum, 2021, Silver Award
- [3] National Undergraduate Intelligent Technology Application Competition, 2021, First Prize
- [4] 7th National Undergraduate Basic Medical Innovation Research and Experimental Design Forum, Central South Region, 2021, Project 1, First Prize

- [5] Central South Region, 7th National Undergraduate Basic Medical Innovation Research and Experimental Design Forum, 2021, Project 2, Third Prize
- [6] National Undergraduate Intelligent Technology Application Competition, 2020, Project 1, First Prize
- [7] National Undergraduate Intelligent Technology Application Competition, 2020, Project 2, Second Prize

Provincial / Municipal Level

- [1] Outstanding Graduate of Henan Province, 2022
- [2] Civilized Student of Henan Province, 2021
- [3] Excellent Student of Henan Province, 2021
- [4] Outstanding Student Cadre of Henan Province, 2020
- [5] Outstanding University Student of Xinxiang City, 2020
- [6] Civilized Student of Xinxiang City, 2020
- [7] “Three Going to the Countryside” Summer Social Practice Campaign for College Students, Henan Province, 2020, Provincial-Level Excellent Team Leader
- [8] “Challenge Cup” Henan Undergraduate Entrepreneurship Competition, 2020, Gold Award
- [9] 15th “Challenge Cup” Henan Undergraduate Academic and Technological Works Competition, 2021, Third Prize
- [10] 2020 Henan “Internet+” Innovation and Entrepreneurship Competition (Henan Regional Selection for the 6th China “Internet+” National Competition), Third Prize
- [11] 2021 Henan “Internet+” Innovation and Entrepreneurship Competition (Henan Regional Selection for the 7th China “Internet+” National Competition), Project 1, Second Prize,
- [12] 2021 Henan “Internet+” Innovation and Entrepreneurship Competition, Project 2, Third Prize
- [13] 2021 Henan “Internet+” Innovation and Entrepreneurship Competition, Project 3, Third Prize
- [14] Yangtze River Delta Global Creative Design Competition – Henan Regional Selection, Project 1, 2020, Second Prize
- [15] Yangtze River Delta Global Creative Design Competition – Henan Regional Selection, 2020, Project 2, Third Prize
- [16] 2nd Rehabilitation Industry Innovation and Entrepreneurship Competition (Prize: 20,000 RMB), 2021, Silver Award
- [17] 1st Rehabilitation Industry Innovation and Entrepreneurship Competition, 2020, Best Work Nominee Award

University Level

- [1] Second-Class Postgraduate Scholarship, Wenzhou Medical University, 2022
- [2] Second-Class Postgraduate Scholarship, Wenzhou Medical University, 2023
- [3] Outstanding Graduate 2022
- [4] Excellent Student 2021
- [5] Outstanding Student Cadre 2020
- [6] Outstanding Youth League Cadre 2021
- [7] “Xuexi Qiangguo” Learning Star of the Year 2020

TECHNICAL SKILLS

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