Rongsheng Wang

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Education

2022.08—2024.06	Macao Polytechnic University	Big Data and Internet of Things	**Master**
2018.09—2022.06	Henan Polytechnic University	Artificial Intelligence	**Bachelor**

Projects

2024.01— Now	**Name:**	Aurora: A Chinese MoE Model through Instruction-Tuning.
	Result:	Received 250+ Github Stars
2023.10— Now	**Name:**	CareGPT: A collection of medical LLM research
	Result:	Received 620+ Github Stars
2023.05— Now	**Name:**	MedQA-ChatGLM: Medical LLM fine-tuned on ChatGLM
	Result:	Received 280+ Github Stars
2023.06— Now	**Name:**	XrayGLM: Medical multimodal model that check X-rays
	Result:	Received 840+ Github Stars
2023.03— 2023.09	**Name:**	ChatGenTitle: Title generation model fine-tuned on the LLaMA
	Result:	Received 820+ Github Stars
2023.03— Now	**Name:**	ChatPaper: Use ChatGPT to summarize your papers
	Result:	Received 17.8k Github Stars

In addition to the above projects, I am actively involved in various open source work in Github and the open source community, and currently have over 4100+ Stars in my personal projects in Github. I am also contributor to open source projects such as MiniGPT-4 and ChatGPT academic tool gpt_academic. Currently I am keeping an eye on large language models including not limited to trusted LLM, Medical MLLM/LLM, Agent for medical and so on.

Publications

1. (**Under Review**) Yaofei Duan et al. "3MT-Net: A Multi-modal Multi-task Model for Breast Cancer and Pathological Subtype Classification Based on a Multicenter Study". In: *IEEE Journal of Biomedical and Health Informatics* (2024)

2. (**Accepted, Second Author**) Qiming Yang et al. "Fine-Tuning Medical Language Models for Enhanced Long-Contextual Understanding and Domain Expertise". In: *LCFM @ International Conference on Machine Learning (ICML) Workshop.* 2024

3. (**Published**)Xiaojuan Xue et al. "Xiaoqing: A Q&A model for glaucoma based on LLMs". In: *Computers in Biology and Medicine* (2024), p. 108399. DOI: `10.1016/j.compbiomed.2024.108399`

4. (**Published, First Author**) Rongsheng Wang et al. "IvyGPT: InteractiVe Chinese pathwaY language model in medical domain". In: *CAAI International Conference on Artificial Intelligence.* 2023. DOI: `10.1007/978-981-99-9119-8_34`

5. (**Published, First Author**) Rongsheng Wang et al. "PCTMF-Net: heart sound classification with parallel CNNs-transformer and second-order spectral analysis". In: *The Visual Computer* (2023), pp. 1–12. DOI: `10.1007/s00371-023-03031-5`

6. (**Published, Second Author**) Dashun Zheng et al. "Focus-RCNet: a lightweight recyclable waste classification algorithm based on focus and knowledge distillation". In: *Visual Computing for Industry, Biomedicine, and Art* 6.1 (2023), p. 19. DOI: `10.1186/s42492-023-00146-3`

7. (**Published, Second Author**) Yaofei Duan et al. "RDT-FSDet: Few-shot object detection for rapid antigen test". In: *Interdisciplinary Nursing Research* (Nov. 2023). DOI: `10.1097/NR9.0000000000000042`

8. (**Published, First Author**) Yaofei Duan, Rongsheng Wang, and Yukun Li. "Aux-ViT : Classification of Alzheimer's Disease from MRI based on Vision Transformer with Auxiliary Branch". In: *2023 5th International Conference on Communications, Information System and Computer Engineering (CISCE).* 2023, pp. 382–386. DOI: `10.1109/CISCE58541.2023.10142358`

9. (**Published, First Author**) Rongsheng Wang et al. "LightR-YOLOv5: a compact rotating detector for SARS-CoV-2 antigen-detection rapid diagnostic test results". In: *Displays* 78 (2023), p. 102403. DOI: `10.1016/j.displa.2023.102403`

10. (**Published, First Author**) Rongsheng Wang et al. "EfficientNet-YOLOv5: Improved YOLOv5 Based on EfficientNet Backbone for Object Detection on Marine Microalgae". In: *2022 IEEE International Conference on Universal Village (UV).* 2022. DOI: `10.1109/UV56588.2022.10185489`

11. (**Published, Second Author**) Hui Ning, Rongsheg Wang, and Pengwei Yang. "A Neural Network Recommender Algorithm Based on Bidirectional Graph Attention". In: *Advances in International Computer Science* 2 (2022). DOI: `10.12208/J.AICS.20220057`

Awards

- First Prize of Baidu PaddlePaddle AGI Hackathon (2023)

- Third Prize of Digital Medical Technology and Application Innovation Competition 2023 (DiMTAIC 2023, Organised by Shanghai AI Lab and Shanghai Jiao Tong University)

- Third Prize of Baichuan Intelligence and Amazon Cloud Technology AI Hackathon (2023)

- A computer software copyright registration number 2023SR0126185 (2023)

- Silver of Kaggle RSNA Screening Mammography Breast Cancer Detection (56/1687 globally, 2023)

- Honorable Mention of IEEE UV 2022 "Vision Meets Algae" Object Detection Challenge (10/347 globally, 2022)

- A computer software copyright registration number 2022SR1459738 (2022)

- Excellent Graduation Design of School of Computer Science and Software Engineering, Henan Polytechnic University (2022)

- iFLYTEK AI Creative Market Monthly Creative Work (2021)

- iFLYTEK AI Creative Market Monthly Outstanding Work (2021)

- Third Prize of 23rd China Robot and Artificial Intelligence Competition Henan Division (2021)

- Second Prize of 2021 China University Computer Design Competition - Artificial Intelligence Creative Competition (8/2665 nationally, 2021)

- Third Prize of 2021 China University Computer Design Competition - Artificial Intelligence Creative Competition Central China Division (2021)

- Baidu PaddlePaddle Deep Learning Developer Technical Certification Expert (PPDE, 1/305 nationally, 2021)

- Henan Polytechnic University Sun Yueqi Second Class Outstanding Student Scholarship (top 10% of the school, 2021)

- Henan Polytechnic University School-level Three Good Student (2021)

- Second Prize of 2021 Henan Polytechnic University College Student Computer Design Competition (2021)

- 7th place of 2020 National Finals of the AI Application Challenge, 3rd place in the individual competition nationally (2020)

- Third Prize of 10th Henan Polytechnic University Robot Competition Autonomous Creative Group (2020)

- A computer software copyright registration number 2020SR0100463 (2019)

- Third Prize of 2019 Henan Polytechnic University "Internet+" College Student Innovation and Entrepreneurship Competition (2019)

- Third Prize of 10th Henan Polytechnic University ACM Programming Contest (2019)

- Second place of Baidu EasyDL General Scene Recognition Algorithm Competition (2019)

- 9th place of Baidu EasyDL Image Recognition Innovation Application Competition (2019)
- Henan Polytechnic University Sun Yueqi Third Class Outstanding Student Scholarship (top 15% of the school, 2019)

Practical experience

- Served as a technical speaker for the Tsinghua Zhipu AI "VisualGLM & XrayGLM: From Model to Fine-tuning" public course (2023).
- Served as a technical speaker for the Baidu Wenxin Large Language Model "Large Model Application Development Skills and Practice" public course (2023).
- Project selected for display at the Macao Polytechnic University Open Day 2023 (2023).
- Participated in the IEEE standard formulation P3350 "General Artificial Intelligence for Medical Imaging" (2023).
- Served as a technical speaker for the Baidu PaddlePaddle "Decoding the AI Black Technology behind Intelligent Transportation" public course (2022).
- Served as a technical speaker for the Baidu PaddlePaddle Developer Talk "OCD Joy, PC Album Can Also Be Intelligently Classified!" (2021).
- Project selected for display at the 2021 Baidu Deep Learning Developer Summit Developer Market (2021).
- Served as a technical speaker for the Baidu PaddlePaddle Developer Talk "Signal of Heartbeat - Edge Heart Sound Auscultation Diagnosis" public course (2021).
- Head of Baidu PaddlePaddle Group, Henan Polytechnic University (2021)
- Henan Polytechnic University Algorithm Society - Artificial Intelligence Group Leader (2020)