

Huaxiang Pu, Master's degree in progress



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Education

- 2021 – present  **M.Sc. in Control Science and Engineering, Chongqing University.**
Research Topics: *Reliability analysis and intelligent fault diagnosis.*
Research Interests: *AI, XAI, Deep Learning, AI/XAI for Time Series, First-Nature Principle for AI, Abnormality Detection, Fault Diagnosis, Remaining Life Prediction, CV, NLP.*
- 2017 – 2021  **B.S. in Automation, Hainan University.**
Thesis Title: *Smart cart development based on Tencent IoT operating system.*
Contents: *Automatic Control Theory, Computer Technology, Artificial Intelligence.*

Publication


- Journal Articles  **Huaxiang Pu**, Ke Zhang and Yiyao An, "Restricted Sparse Networks for Rolling Bearing Fault Diagnosis," in *IEEE Transactions on Industrial Informatics*, doi: 10.1109/TII.2023.3243929. (CAS I, JCR Q1, IF 10+, **First Author**)
- Conference Proceeding  **Huaxiang Pu**, Ke Zhang and Keyue Qiu, "Is the current deep learning paradigm really the future?", in Proc. CISC 2022. (**EI, First Author**)
- Invention Patents  Zhang Ke, Chai Yi, **Pu Huaxiang** et al. A method for detecting temperature anomalies of interstellar link antenna main reflector [P]. Chongqing: CN114705313A, 2022-07-05. (**Student I**)
-  Zhang Ke, Chai Yi, **Pu Huaxiang** et al. A multimodal fault understanding and auxiliary labeling method for intelligent operation and maintenance of instrumentation [P]. Chongqing: CN114693942A, 2022-07-01. (**Student I**)
- Group Standards  Whole life cycle health monitoring of in-service instrumentation and electromechanical equipment. (**Student I**)

Skills

- Languages  Strong reading, writing and speaking skills in Chinese, with favorable reading and writing skills in English (**CET-6**).
- Coding  Python, C/C++, MATLAB, \LaTeX
- Deep Learning Frameworks  PyTorch, Tensorflow (Keras), Paddle.
- Softwares  Visual Studio Code, PyCharm, Zotero, Visio, Microsoft/WPS Office.
- Misc.  Academic research, article writing, \LaTeX typesetting and publishing.

Miscellaneous Experience



Key Projects

- 2021 – present  **Instrumentation Intelligent Operation and Maintenance Key R&D Project**, Ministry of Education Key Laboratory.



Awards and Achievements

- 2020  **National Inspirational Scholarship**, Hainan University.
- 2021  **The 6th place in Intelligent Speech Recognition Challenge**, 2021 iFLYTEK A.I. Developer Competition.
-  **The 10th place in the Image Retrieval Challenge**, 2021 iFLYTEK A.I. Developer Competition.
- 2022  **A-class Academic Scholarship**, Chongqing University.
-  **National 3rd Prize of China Postgraduate Mathematical Modeling Competition (Team Leader)**, China Degree and Postgraduate Education Association & China Federation of Science and Technology Youth Science and Technology Center.
-  **The 2nd place in the Electromagnetic Modulation Pattern Recognition Competition**, 2022 CCF Big Data and Computational Intelligence Competition.

Certification

- 2021  **Certified Outstanding player**. Awarded by iFLYTEK.
- 2022  **Certified Outstanding Student**. Awarded by Chongqing University.

Study and Life

- 2021 – 2022  Course Grade Professional **Ranking 2**. Served as the **Squad Leader** of the 2021 class of safety control in the School of Automation, Chongqing University.
-  Good communication skills, self-driven, passionate about technology and continuous learning, open to new scenarios, and concerned about cutting-edge new technologies and theories.