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计算机系统结构专业博士、擅长磁存储及光存储系统建模与分析、热衷数据存储技术、信号处理与信息理论。

▶ 教育背景

至今 华中科技大学 • 武汉光电国家研究中心

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2016.09 | 计算机系统结构 • 博士

2016.06 中南民族大学•电子信息工程学院

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〈/〉科研项目

- ▶ 国家自然科学基金, 面上项目, 62272178, 超高密度三维热辅助磁记录写机制研究, 2023/01 至 2026/12, 在 研,参与
- ▶ 国家自然科学基金, 面上项目, 61672246, 超高密度二维磁记录读磁头阵列及其记录系统关键技术研究, 2017/01 至 2020/12、已结题、参与
- ▶ 国家自然科学基金, 面上项目, 61272068, 比特图案介质的超高密度瓦记录关键技术研究, 2013/01-2016/12, 已结题,参与
- ▶ 企业横向,面向蓝光超多层 PRML 算法技术合作项目,2024/07 至 2025/01,在研,参与
- ➤ 企业横向,基于 BDXL 标准的 PRML 模型设计与实现合作项目,2022/08 至 2023/06,已结题,参与
- ▶ 企业横向,HDD 原型算法和先进磁记录技术合作项目,2022/03 至 2023/03,已结题,参与

😝 科研成果

论文及专利

- [1] **LUO K**, ZHANG K, WU F, LIAO Y, GAO H, LI W, JIAN Y, LIU Z, ZHAO Y, CHEN J*, LU P, WANG S. The Compatible Partial Response Maximum Likelihood Detection Schemes for Blu-Ray Discs[C]//The 21st International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology. Thailand, 2024: 1-5.
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Highly-motivated Ph.D. in Computer Science(Computer Architecture) with good foundations of math and statistics. Proficient in storage channel modeling, analysis, and signal processing and enthusiastic about data storage technologies and deep learning inspired information theory. Skilled in Matlab/Octave, Python, and C/C++ programming. Passionate about computer science, hiking, and photography.

Education

Till now	Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and
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December 2022	Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and
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Research Projects

- > National Natural Science Foundation of China, General Program, No. 62272178, Study of Write Mechanism of Ultra-high Density Three-Dimensional Heat-Assisted Magnetic Recording, 2023/01 ~ 2026/12, Active, Member
- > National Natural Science Foundation of China, General Program, No. 61672246, Key Technologies of Read Heads Array and The Recording System for Two-Dimensional Magnetic Recording at Ultra-high Density, $2017/01 \sim 2020/12$, Finished, Member
- > National Natural Science Foundation of China, General Program, No. 61272068, Key Technologies of Ultrahigh Density Shingled Magnetic Recording on Bit Patterned Media, $2013/01 \sim 2016/12$, Finished, Member
- \triangleright Enterprise Cooperation Project, PRML algorithms and techniques for multi-layer Blu-ray discs, 2024/07 \sim 2025/01, Active, Member
- > Enterprise Cooperation Project, BDXL Standard Based PRML Model Design and Implementation, 2022/08 \sim 2023/06, Finished, Member
- > Enterprise Cooperation Project, HDD Prototype Algorithms and Innovative Magnetic Record Technology, $2022/03 \sim 2023/03$, Finished, Member

Research Achievements

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