## **Ke Luo**



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Ph.D. in Computer System Architecture



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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
	Technology
March 2023	Postdoc. in Optical Engineering
December 2022	Wuhan National Laboratory for Optoelectronics, <b>Huazhong University of Science and</b>
	Technology
September 2016	Ph.D. in Computer Architecture
June 2016 September 2012	College of Electronics and Information, <b>South-Central Minzu University</b> Bechelor in Electronics and Information Engineering

# 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

#### References

- [1] K. Luo, K. Zhang, Y. Wu, Y. Liao, H. Gao, W. Li, Y. Jian, Z. Liu, Y. Zhao, J. Chen, P. Lu, and S. Wang, "The compatible partial response maximum likelihood detection schemes for blu-ray discs," in 2024 21st International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), 2024, pp. 1-5.
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- Three-Dimentional Magnetic Recording," in *2024 IEEE International Magnetics Conference (INTERMAG)*, no. AD-11, Rio de Janeiro, Brazil, May 2024, pp. 1–2.
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