

# LUMING SUN

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## 🎓 EDUCATION BACKGROUND

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**Renmin University of China** 2017 – 2023(expected)

*MD-PhD* Big Data Science and Engineering

**Xi'an Jiaotong University** 2013 – 2017

*Bachelor*: Computer Science, *Major*: Engineering of Internet of Things

## ⚙️ PROFESSIONAL SKILLS

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- Machine learning theory, database query optimization
- Frameworks or systems: PyTorch, PostgreSQL, Ray, TensorFlow, Spark, Neo4j, Vertica

## 👥 RESEARCH & INTERNSHIP EXPERIENCE

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**National Internet Emergency Center** 2017.10 – 2018.8

*Student leader of Information Security Project*

- Spark - Big data processing
- Python+Selenium - Large scale web spider

**Alibaba DAMO Academy** 2020.6 – 2020.10

*Research Intern at Database and Storage Lab*

- Deep learning model pruning research in learning-based cardinality estimation
- Incremental and decremental learning research

**National Key R&D Program of China** 2018.5 –

Area of research: Learning-based query optimization

Selected Publications:

- Luming Sun, et al. Survey of Data Management Techniques Powered by Artificial Intelligence. In JOS, 2019.
- Luming Sun, et al. MOSE: A Monotonic Selectivity Estimator Using Learned CDF. In TKDE, 2021.
- Luming Sun, et al. DeepO: A Learned Query Optimizer. In SIGMOD 2022.

**ByteDance Infra System Lab** 2021.2 –

*R&D Intern at ByteBrain*

- Disk usage forecasting service for multiple storage systems (15000+ instances, 11+EB data volume)
- Luming Sun, et al. SUFS: A Generic Storage Usage Forecasting Service Through Adaptive Ensemble Learning (SIGMOD 2023 under review)
- Various resource forecasting service for multiple systems: large-scale and multi-horizon QPS forecasting, high-frequency and multivariate metrics forecasting for Elastic Intelligent Schedule, etc.
- CPU and traffic headroom forecasting and reclaim in Toutiao Cloud Engine.

## ♥️ HONORS AND PRIZE

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Tic100 National IoT Innovation Competition, *Bronze Award* 2016.9

Xi'an Jiaotong University, *Outstanding Student Leader* 2017.6

School of Information, Renmin University of China, *Excellent graduate students* 2018.12