

Luyao Bai

Curriculum Vitae

PhD Student in Computer Science, University of Illinois Chicago
Advised by [Prof. Xiaoguang Wang](#)

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Research Interests

Current: Computer Science, Cybersecurity, Operating Systems.

Prior: Edge Computing, Autonomous Vehicles, Reinforcement Learning.

Education

University of Illinois Chicago (UIC) Aug 2025 – Present
Ph.D. in Computer Science · Advisor: Prof. Xiaoguang Wang

University of Tsukuba Dec 2019 – Mar 2021
Research Student

Dalian University of Technology (DUT) Aug 2015 – Jun 2019
B.S. in Software Engineering

Experience

Research Assistant, Hong Kong Polytechnic University (PolyU) Jul 2023 – Jul 2025
Hong Kong SAR, China

Senior Algorithm Engineer, APE Technology Inc. Apr 2022 – Jun 2023
Shanghai, China

Algorithm Engineer, Beijiao Xintong Sci & Tech Apr 2021 – Mar 2022
Beijing, China

Publications

1. **Bai, L.**, Alghythee, K., Zhang, H., & Wang, X. (2026). *Beyond Crash-to-Patch: Patch Evolution for Linux Kernel Repair*. arXiv preprint. [arXiv:2604.03851](#)
2. Qi, X., Yang, Y., Cao, J., **Bai, L.**, et al. (2026). *Continuous Vision-Language-Action Co-Learning with Semantic-Physical Alignment for Behavioral Cloning*. In AAAI 2026. [CCF-A]. [paper](#)
3. **Bai, L.**, Cao, J., Zhang, M., et al. (2024). *Collaborative Edge Intelligence for Autonomous Vehicles: Opportunities and Challenges*. IEEE Network. [CAS Q1, JCR Q1]. [paper](#)
4. **Bai, L.**, Abe, H., Lee, C., et al. (2020). *RNN-based Approach to TCP Throughput Prediction*. In CANDAR 2020. **Best Paper Award**. [paper](#)
5. Xia, Q., **Bai, L.**, et al. (2020). *Learning-based Online Query Evaluation for Big Data Analytics in Mobile Edge Clouds*. In IEEE ICC 2020. [CCF-C]. [paper](#)
6. Xia, Q., **Bai, L.**, et al. (2019). *QoS-Aware Proactive Data Replication for Big Data Analytics in Edge Clouds*. In ICPP 2019. [CCF-B]. [paper](#)
7. Xia, Q., Xu, Z., Liang, W., Yu, S., Guo, S., & Zomaya, A. Y. (2019). *Efficient Data Placement and Replication for QoS-Aware Approximate Query Evaluation*. IEEE TPDS. [CCF-A]. Contribution statement on DUT website. [paper](#)

Academic Service

Artifact Evaluation Committee, USENIX OSDI '26 <i>20th Symposium on Operating Systems Design and Implementation</i>	2026
Artifact Evaluation Committee, ACM CAIS '26 <i>1st ACM Conference on AI and Agentic Systems</i>	2026
Session Chair, DLS 2025 Workshop @ IEEE MASS 2025 <i>Chicago, USA</i>	Oct 2025
Peer Reviewer, IEEE Transactions on Mobile Computing (TMC)	2024