

# Yu Luo

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AFFILIATION	Edward S. Rogers Sr. Department of Electrical and Computer Engineering University of Toronto 10 King's College Road Toronto, Ontario M5S 3G4, Canada	<i>Email:</i> <a href="mailto:jack.luo@mail.utoronto.ca">jack.luo@mail.utoronto.ca</a> <i>Mobile:</i> +1 (647) 861-3533 <i>LinkedIn:</i> <a href="https://www.linkedin.com/in/yu-jack-luo">linkedin.com/in/yu-jack-luo</a> <i>Web:</i> <a href="https://research.generativelab.io/jack">research.generativelab.io/jack</a>
EDUCATION	<b>University of Toronto</b> , Toronto, Ontario Canada <i>Department of Electrical and Computer Engineering</i> <ul style="list-style-type: none"><li>➤ <b>Ph.D. Candidate</b>, Electrical and Computer Engineering <b>2017 - Present</b> <i>Advisor:</i> Ding Yuan, Department of Electrical and Computer Engineering</li><li>➤ <b>M.A.Sc.</b>, Electrical and Computer Engineering <b>2017</b> <i>Dissertation:</i> approf: A Non-intrusive Call Hierarchy Profiler for Distributed Systems <i>Advisor:</i> Ding Yuan, Department of Electrical and Computer Engineering</li><li>➤ <b>B.A.Sc.</b>, Electrical and Computer Engineering with Business Minor <b>2015</b> <i>Thesis:</i> High-Level Synthesis of FPGA Based Image Processing Hardware Accelerators</li></ul>	
RESEARCH INTEREST	<b>High performance and efficiency profiling systems and data compression</b> , distributed computing, cloud computing, runtimes, and compilers	
RESEARCH COLLABORATION EXPERIENCE	<b>Huawei 2012 Research Lab</b> , Shenzhen, China <b>2017 - Present</b> <ul style="list-style-type: none"><li>➤ Architect always-on high performance profiling for Android and Harmony(HongMeng) OS</li><li>➤ Implement performance anomaly diagnosis and analysis tools for Huawei Cloud</li></ul> <b>Huawei Central Software Lab</b> , Shenzhen, China <b>2015 - 2016</b> <ul style="list-style-type: none"><li>➤ Implement log analysis tools to analyze failures in 4G network management systems</li></ul>	
WORK EXPERIENCE	<b>Teaching Assistant</b> - University of Toronto, Toronto <b>2015 - Present</b> <ul style="list-style-type: none"><li>➤ ECE454: Computer Systems Programing – Head TA</li><li>➤ ECE472: Engineering Economics Analysis – Teaching TA</li><li>➤ ECE568: Computer Security</li></ul> <b>ETF Sales and Trading Desk Analyst</b> - BMO Capital Markets, Toronto <b>2015</b> Develop real-time data-feed and assist with secondary market market-making and hedging <b>DB2 Kernel Continuous Engineering Intern</b> - IBM Canada, Toronto <b>2013-2014</b> Develop and maintain database kernel buffer management engine and crash recovery	
HONOUR	<b>Systems Research: SOSP/OSDI (top conferences for systems research) Hall of Fame</b> Currently ranked 84 <sup>th</sup> in the world, one of two graduate students on the list	

## PUBLICATIONS

Yongle Zhang, Kirk Rodrigues, Yu Luo, Michael Stumm, Ding Yuan. “The inflection point hypothesis: a principled debugging approach for locating the root cause of a failure” in SOSP’19 (*27<sup>th</sup> ACM Symposium on Operating System Principles*)

Xu Zhao, Kirk Rodrigues, Yu Luo, Michael Stumm, Ding Yuan, Yuanyuan Zhou. “Log20: Fully automated optimal placement of log printing statements under specified overhead threshold” in SOSP’17 (*26<sup>th</sup> ACM Symposium on Operating System Principles*)

Xu Zhao, Kirk Rodrigues, Yu Luo, Michael Stumm, Ding Yuan, Yuanyuan Zhou. “The game of twenty questions: Do you know where to log?” in HotOS’17 (*16<sup>th</sup> Workshop on Hot Topics in Operating Systems*)

Xu Zhao, Kirk Rodrigues, Yu Luo, Ding Yuan, Michael Stumm. “Non-intrusive performance profiling for entire software stacks based on the flow reconstruction principle” in OSDI’16 (*12<sup>th</sup> USENIX Symposium on Operating Systems Design and Implementation*)

Xu Zhao, Yongle Zhang, David Lion, Muhammad Faizan Ullah, Yu Luo, Ding Yuan, Michael Stumm. “lprof: A non-intrusive request flow profiler for distributed systems” in OSDI’14 (*11<sup>th</sup> USENIX Symposium on Operating Systems Design and Implementation*)

Ding Yuan, Yu Luo, Xin Zhuang, Guilherme Renna Rodrigues, Xu Zhao, Yongle Zhang, Pranay U Jain, Michael Stumm. “Simple testing can prevent most critical failures: An analysis of production failures in distributed data-intensive systems” in OSDI’14 (*11<sup>th</sup> USENIX Symposium on Operating Systems Design and Implementation*)

Xin Tong, Jack Luo, Andreas Moshovos. “QTrace: An interface for customizable full system instrumentation” in ISPASS’13 (*2013 IEEE International Symposium on Performance Analysis of Systems and Software*)

## PATENTS

Yu Luo, Kirk Rodrigues, Michael Stumm, Ding Yuan, Xu Zhao. “Log processing and analysis”. US Patent 10,642,712. Issued May. 5, 2020

Muhammad Faizan Ullah, David Lion, Yu Luo, Michael Stumm, Ding Yuan, Xu Zhao, Yongle Zhang. “Systems and processes for computer log analysis”. US Patent 10,484,506. Issued Nov. 19, 2019

## REFERENCE

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