

# Le Xu

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## Education

- 08/2015–Present University of Illinois at Urbana-Champaign  
Ph.D. in Computer Science (advised by Indranil Gupta)  
GPA: 3.83
- 08/2013–05/2015 University of Illinois at Urbana-Champaign  
M.S in Computer Science (advised by Indranil Gupta)  
GPA: 3.84
- 08/2009–05/2013 University of Illinois at Urbana-Champaign  
B.S in Math and Computer Science  
GPA: 3.45

## Research Interest

Distributed Systems; Cloud Computing; Resource Management; Adaptivity; System Elasticity; Performance Analysis

## Publication

- 04/2021 (To appear) Le Xu, Shivaram Venkataraman, Indranil Gupta, Luo Mai, Rahul Potharaju. "Move Fast and Meet Deadlines: Fine-grained Real-time Stream Processing with Cameo" USENIX Conference on Networked Systems Design and Implementation (NSDI), 2021.
- 03/2020 Yunhui Long, Le Xu, Carl Gunter "A Hypothesis Testing Approach to Sharing Logs with Confidence" ACM Conference on Data and Application Security and Privacy (CODASPY), 2020.
- 10/2018 Kalim, Faria, Le Xu, Sharanya Bathey, Richa Meherwal, Indranil Gupta. "Henge: Intent-driven Multi-Tenant Stream Processing" Symposium of Cloud Computing (SoCC), 2018.
- 06/2018 Luo Mai, Kai Zeng, Rahul Potharaju, Le Xu, Steve Suh, Shivaram Venkataraman, Paolo Costa, Terry Kim, Saravanan Muthukrishnan, Vamsi Kuppa, Sudheer Dhulipalla, Sriram Rao. "Chi: a scalable and programmable control plane for distributed stream processing systems." Proceedings of the VLDB Endowment (VLDB), 2018.
- 04/2018 Mainak Ghosh, Ashwini Raina, Le Xu, Xiaoyao Qian, Indranil Gupta, Himanshu Gupta. "Popular is Cheaper: Curtailing Memory Costs in Interactive Analytics Engines." Proceedings of the 2018 European Conference on Computer Systems, (EuroSys), 2018.
- 2018 Mainak Ghosh, Le Xu, Indranil Gupta. "Resource Management: Performance Assuredness in Distributed Cloud Computing via Online Reconfigurations" Assured Cloud Computing. John Wiley & Sons, 2018.
- 08/2017 Mijung Kim, Jun Li, Haris Volos, Manish Marwah, Alexander Ulanov, Kimberly Keeton, Lucy Cherkasova, Le Xu, Pradeep Fernando. "Sparkle: Optimizing Spark for Large Memory Machines and Analytics" 2017 ACM Symposium on Cloud Computing (SOCC), poster track. 2017.

- 03/2017 Mainak Ghosh, Le Xu, Xiaoyao Qian, Thomas Kao, Indranil Gupta and Himanshu Gupta. "Getafix: Workload-aware distributed interactive analytics." *Technical Report*. (2017).
- 04/2016 Xu, Le, Boyang Peng, and Indranil Gupta. "Stela: Enabling Stream Processing Systems to Scale-in and Scale-out On-demand." *IEEE International Conference on Cloud Engineering (IC2E)*. 2016.
- 05/2015 Xu, Le. "Stela: on-demand elasticity in distributed data stream processing systems." *Master Thesis*. (2015).
- 03/2015 Wang, Wenting, Le Xu, and Indranil Gupta. "Scale Up vs. Scale Out in Cloud Storage and Graph Processing Systems." *2015 IEEE International Conference on Cloud Engineering (IC2E)*. IEEE, 2015.
- 09/2016 Xu, Le. "VStorm: Video Traffic Management By Distributed Data Stream Processing Systems." *Technical Report*. (2016).

## Reviews

- 10/2016 ACM Transactions on Autonomous and Adaptive Systems

## Teaching Experience

- 01/2015, 01/2016 Cloud Computing Concepts (Coursera) - Teaching Assistant
- 01/2016 Advanced Distributed Systems - Teaching Assistant
- 01/2015, 09/2019 Distributed System - Teaching Assistant
- 05/2018, 05/2020 Cloud Computing Capstone

## Industrial Experience

- 06/2019-08/2019 Alibaba Damo Academy (Data Analytics and Intelligence Lab)  
Building hierarchical actor-based framework for distributed graph querying service
- 05/2017-08/2017 Microsoft (Cloud and Information Services Lab)  
Building a control layer inside of a real-time stream processing engine for flexible and efficient online monitoring and re-configuration
- 05/2016-08/2016 Hewlett-Packard Labs (Software Analytics Group)  
Conducting Spark performance analysis for micro-benchmark and machine learning applications
- 05/2015-08/2015 Salesforce Inc. (ServiceCloud Performance)  
Implemented Jmeter Tests suites for ServiceCloud application platform with synthetic data set
- 05/2014-08/2014 Yahoo! Sunnyvale (Cloud Services and Organization)  
Implemented a server log-processing framework for server log retrieval and analysis. (Pig, Hive & Oozie)

## Awards and Honors

- 2020 Rising Stars EECS Workshop

2019	SOSP 2019 Travel Grant
2018	OSDI 2018 Travel Grant
2018	SoCC 2018 Travel Grant
2017	SOSP 2017 Travel Grant
2016	David J. Kuck Outstanding M.S. Thesis Award
2015	Grace Hopper Celebration Travel Fund
2015	Conference Travel Grant
2015	Outstanding Teaching Assistant

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