Shuai Mu

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Professional Experience

STONY BROOK UNIVERSITY, COMPUTER SCIENCE DEPARTMENT   Stony Brook, NY
Assistant Professor, 2018-Present

NEW YORK UNIVERSITY, COURANT INSTITUTE   New York, NY
Assistant Professor/Faculty Fellow, 2017-2018
Post-Doctoral Associate, 2015-2017
Advisor: Michael Walfish

Education

TSINGHUA UNIVERSITY   Beijing, China
Ph.D. in Computer Science, 2015
Advisor: Kang Chen, Yongwei Wu; Supervisor: Weimin Zheng

CHINA AGRICULTURAL UNIVERSITY   Beijing, China
B.S. in Computer Science, 2010
Ranking 1/61

Visiting

UNIVERSITY OF SOUTHERN CALIFORNIA, 3 months in 2015   Los Angeles, CA
Advisor: Wyatt Lloyd

NEW YORK UNIVERSITY, 13 months in 2013-2014   New York, NY
Advisor: Jinyang Li

SYDNEY UNIVERSITY, 4 months in 2012-2013   Sydney, Australia
Supervisor: Albert Zomaya

Teaching

Asynchronous (Distributed) Systems, Stony Brook Univ., 2019   Lecturer

Computer System Organization, NYU, 2018   Lecturer

Computer System Organization, NYU, 2017   Recitation Leader

Data Structures, NYU, 2016   Recitation Leader

Operating Systems, NYU, 2015	Guest Lecturer
Computer Systems, Tsinghua Univ., 2014	Guest Lecturer
Introduction to Algorithms, Tsinghua Univ., 2012	Teaching Assistant
Introduction to Algorithms, Tsinghua Univ., 2011	Teaching Assistant
Object-oriented Programming, Tsinghua Univ., 2011	Teaching Assistant

Publications

[1] Yu Lin Chen, **Shuai Mu**, Jinyang Li, Cheng Huang, Jin Li, Aaron Ogus, and Douglas Phillips. Giza: Erasure coding objects across global data centers. In *Proceedings of USENIX Conference on Annual Technical Conference (ATC)*, July 2017.

[2] Haonan Lu, Christopher Hodsdon, Khiem Ngo, **Shuai Mu**, and Wyatt Lloyd. The SNOW theorem and latency-optimal read-only transactions. In *Proceedings of USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, November 2016.

[3] **Shuai Mu**, Lamont Nelson, Wyatt Lloyd, and Jinyang Li. Consolidating concurrency control and consensus for commits under conflicts. In *Proceedings of USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, November 2016.

[4] Zhaoguo Wang, **Shuai Mu**, Yang Cui, Han Yi, Haibo Chen, and Jinyang Li. Scaling multicore databases via constrained parallel execution. In *Proceedings of ACM International Conference on Management of Data (SIGMOD)*, June 2016.

[5] **Shuai Mu**, Yang Cui, Yang Zhang, Wyatt Lloyd, and Jinyang Li. Extracting more concurrency from distributed transactions. In *Proceedings of USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, October 2014.

[6] **Shuai Mu**, Kang Chen, Yongwei Wu, and Weimin Zheng. When Paxos meets erasure code: reduce network and storage cost in state machine replication. In *Proceedings of ACM Symposium on High-Performance Parallel and Distributed Computing (HPDC)*, June 2014.

[7] **Shuai Mu**, Kang Chen, Pin Gao, Feng Ye, Yongwei Wu, and Weimin Zheng. *μ*LibCloud: Providing high available and uniform accessing to multiple cloud storages. In *Proceedings of ACM/IEEE International Conference on Grid Computing (Grid)*, May 2012.

Conference Talks

[1] Consolidating concurrency control and consensus for commits under conflicts. In *Proceedings of USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, October 2016.

[2] Extracting more concurrency from distributed transactions. In *Proceedings of USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, October 2014.

[3] When Paxos meets erasure code: reduce network and storage cost in state machine replication. In *Proceedings of ACM Symposium on High-Performance Parallel and Distributed Computing (HPDC)*, June 2014.

[4] *μ*LibCloud: Providing high available and uniform accessing to multiple cloud storages. In *Proceedings of ACM/IEEE International Conference on Grid Computing (Grid)*, May 2012.

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