Suli Yang

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RESEARCH INTERESTS

Resilience, Manageability, and Performance of Storage Systems and Data Management Systems. Software-Defined Storage and Networking Systems.

EDUCATION

Department of Computer Sciences, University of Wisconsin – Madison   2011 – 2017
Ph.D. in Computer Science, with a focus on file systems and storage systems
Thesis: *Principled Schedulability in Local and Distributed Storage Systems*
Advisors: Prof. Andrea Arpaci-Dusseau & Prof. Remzi Arpaci-Dusseau

Department of Physics, University of Wisconsin – Madison   2009 – 2011
M.A. in Physics

Department of Physics, Peking University   2004 – 2009
B.S. in Physics

WORK EXPERIENCE

Ant Financial Service Group, Hangzhou, China   2018 – 2021
Software Engineer

NetApp Inc., Sunnyvale, USA   2013 – 2015
Research Intern
Mentor: Kiran Srinivasan

Intuit Inc., Montain View, USA   Summer 2011
Software Engineering Intern

CERN Laboratory for Particle Physics, Geneva, Switzerland   2009 – 2010
Research Intern
Advisor: Sau Lan Wu

Deutsches Elektronen-Synchrotron (DESY), Berlin, Germany   Summar 2008
Research Intern
Mentor: Ishmael Valdez

PEER-REVIEWED CONFERENCE PUBLICATIONS

[1] **Suli Yang**, Jing Liu, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *Principled Schedulability Analysis for Distributed Storage Systems using Thread Architecture Models.* In Proceedings of the 13th Symposium on Operating System and Design Implementation (OSDI '18), CA, USA, 2018.

[2] Al-Kiswany, Samer, **Suli Yang**, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *NICE: Network-Integrated Cluster-Efficient Storage.* In Proceedings of the 26th International Symposium on High-Performance Parallel and Distributed Computing (HPDC '17), Washington D.C., USA, 2017.

[3] **Suli Yang**, Kiran Srinivasan, Kishore Udayashankar, Swetha Krishnan, Jingxin Feng, Yupu Zhang, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *Tombolo: Performance Enhancements for Cloud*

Storage Gateways. In 2016 32nd Symposium on Mass Storage Systems and Technologies (MSST '16), Santa Clara, CA, USA, 2016.

[4] **Suli Yang**, Tyler Harter, Nishant Agrawal, Salini Selvaraj Kowsalya, Anand Krishnamurthy, Samer Al-Kiswany, Rini T. Kaushik, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *Split-Level I/O Scheduling.* In Proceedings of the 25th Symposium on Operating Systems Principles (SOSP '15), Monterey, CA, USA, 2015.

[5] Grandl, Robert, Yizheng Chen, Junaid Khalid, **Suli Yang**, Ashok Anand, Theophilus Benson, and Aditya Akella. *Harmony: Coordinating Network, Compute, and Storage in Software-Defined Clouds.* In Proceedings of the 4th annual Symposium on Cloud Computing (SOCC '13), Santa Clara, CA, USA, 2013.

Peer-Reviewed Journal and Workshop Publications

[1] Kettaneh, Ibrahim, Ahmed Alquraan, Hatem Takruri, **Suli Yang**, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Samer Al-Kiswany. *The Network-Integrated Storage System.* IEEE Transactions on Parallel and Distributed Systems (TPDS) 31, no. 2 (2019): 486-500.

[2] Lee, Eunji, Youil Han, **Suli Yang**, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. *How to Teach an Old File System Dog New Object Store Tricks.* In 10th USENIX Workshop on Hot Topics in Storage and File Systems (HotStorage '18), Boston, MA, USA 2018.

Patents

[1] Zhenkun Yang and **Suli Yang**. *Data Writing Method, Device and Equipment.* C.N. Patent 111,399,780, issued August 24, 2021

[2] **Suli Yang**, Kishore Kasi Udayashankar, Jingxin Feng, Swetha Krishnan, and Kiran Srinivasan. *Methods for Combining Access History and Sequentiality for Intelligent Prefetching and Devices thereof.* U.S. Patent 9,471,497, issued October 18, 2016.

Service

ACM Transactions on Storage (TOS), Reviewer	2021
IEEE's Transactions on Cloud Computing (TCC), Reviewer	2021
IEEE's Transactions on Parallel and Distributed Systems (TPDS), Reviewer	2021
Computers & Security (COSE), Reviewer	2021

Presentations and Invited Talks

Principled Schedulability Analysis for Distributed Storage Systems using Thread Architecture Models.
Talk at OSDI '18 — Oct. 2018

Tombolo: Performance Enhancements for Cloud Storage Gateways.
Talk at MSST '16 — Jun. 2016

Split-Level I/O Scheduling.
Talk at SOSP '15 — Oct. 2015
Invited talk at Tintri Inc. — Jul. 2015