

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 Ph.D. in Computer Science, with a focus on file systems and storage systems Thesis: <i>Principled Schedulability in Local and Distributed Storage Systems</i> Advisors: Prof. Andrea Arpaci-Dusseau & Prof. Remzi Arpaci-Dusseau	2010 – 2017
Department of Physics, University of Wisconsin – Madison M.A. in Physics	2009 – 2010
Department of Physics, Peking University B.S. in Physics	2004 – 2009

WORK EXPERIENCE

Ant Financial Service Group , Hangzhou, China <i>Software Engineer</i>	2018 – 2021
NetApp Inc. , Sunnyvale, USA <i>Research Intern</i> Mentor: Kiran Srinivasan	2013 – 2015
Intuit Inc. , Mountain View, USA <i>Software Engineering Intern</i>	Summer 2011
CERN Laboratory for Particle Physics , Geneva, Switzerland <i>Research Intern</i> Advisor: Sau Lan Wu	2009 – 2010
Deutsches Elektronen-Synchrotron (DESY) , Berlin, Germany <i>Research Intern</i> Mentor: Ishmael Valdez	Summer 2008

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 Takturi, **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 – 2022
IEEE Transactions on Cloud Computing (TCC), Reviewer	2021
IEEE 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