

# Yang Wang

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RESEARCH INTERESTS Large-scale distributed systems, cloud storage, fault tolerance

EDUCATION **Ph.D.** Computer Science, The University of Texas at Austin, 2014  
• Advisors: Dr. Lorenzo Alvisi and Dr. Mike Dahlin

**M.E.**, Computer Science and Technology, Tsinghua University, 2008  
**B.E.**, Computer Science and Technology, Tsinghua University, 2005

ACADEMIC POSITIONS **Assistant Professor** Computer Science, the Ohio State University, Jan. 2015 - Present  
**Research Assistant** Computer Science, the University of Texas at Austin, 2009 - 2014  
**Teaching Assistant** Computer Science, the University of Texas at Austin, 2008 - 2009

HONORS AND AWARDS Google PhD Fellowship in Distributed Computing, 2013 - 2014  
Best paper award, Systor 2014

REFEREED PUBLICATIONS Chao Xie, Chunzhi Su, Manos Kapritsos, Yang Wang, Navid Yaghmazadeh, Lorenzo Alvisi, and Prince Mahajan. "Salt: Combining ACID and BASE in a Distributed Database". *Proceedings of the 11th USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, Broomfield, CO, October, 2014.

Mark Silberstein, Lakshmi Ganesh, Yang Wang, Lorenzo Alvisi, and Mike Dahlin. "Lazy Means Smart: Reducing Repair Bandwidth Costs in Erasure-coded Distributed Storage". *Proceedings of the 7th ACM International Systems and Storage Conference (Systor)*, Haifa, Israel, June, 2014. Best paper award.

Yang Wang, Manos Kapritsos, Lorenzo Alvisi, and Mike Dahlin. "Exalt: Empowering Researchers to Evaluate Large-Scale Storage Systems". *Proceedings of the 11th USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, Seattle, WA, April, 2014.

Yang Wang, Manos Kapritsos, Zuo Cheng Ren, Prince Mahajan, Jeevitha Kirubanandam, Lorenzo Alvisi, and Mike Dahlin. "Robustness in the Salus scalable block store", *Proceedings of the 10th USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, Lombard, IL, April 2013.

Manos Kapritsos, Yang Wang, Vivien Quema, Allen Clement, Lorenzo Alvisi, and Mike Dahlin. "All about Eve: Execute-Verify Replication for Multi-Core Servers", *Proceedings of 2012 Symposium on Operating Systems Design and Implementation (OSDI)*, Hollywood, CA, October 2012.

Yang Wang, Lorenzo Alvisi, and Mike Dahlin. "Gnothi: Separating Data and Metadata for Efficient and Available Storage Replication", *Proceedings of 2012 USENIX Annual Technical Conference (USENIX ATC)*, Boston, MA, June 2012.

Yang Wang, Jiwu Shu, Guangyan Zhang, Wei Xue, and Weimin Zheng. “SOPA: Selecting the Optimal Policy Adaptively”. *ACM transactions on storage (TOS)*, Volume 6 Issue 2, July 2010.

Allen Clement, Manos Kapritsos, Sangmin Lee, Yang Wang, Lorenzo Alvisi, Mike Dahlin, and Taylor Riche. “UpRight Cluster Services”. *Proceedings of the 22nd ACM Symposium on Operating Systems Principles (SOSP)*, Big Sky, MT, October 2009.

OTHER  
PUBLICATIONS

Yang Wang, Manos Kapritsos, Lorenzo Alvisi, and Mike Dahlin. “Exalt: Empowering Researchers to Evaluate Large-Scale Storage Systems”, *Poster at the 24th ACM Symposium on Operating Systems Principles (SOSP 2013)*, Farmington, Pennsylvania, November 2013.

Manos Kapritsos, Yang Wang, Vivien Quema, Allen Clement, Lorenzo Alvisi, and Mike Dahlin. “All about Eve: Execute-Verify Replication for Multi-Core Servers”, *Poster at 2012 Symposium on Operating Systems Design and Implementation (OSDI)*, Hollywood, CA, October 2012.

Yang Wang, Manos Kapritsos, Zuocheng Ren, Prince Mahajan, Jeevitha Kirubanandam, Lorenzo Alvisi, and Mike Dahlin. “Robustness in the Salus scalable block store”. Technical Report TR-12-24, The University of Texas at Austin, Department of Computer Science, September 2012.

Manos Kapritsos, Yang Wang, Vivien Quema, Allen Clement, Lorenzo Alvisi, and Mike Dahlin. “All about Eve: Execute-verify replication for multi-core servers (extended version)”. Technical Report TR-12-23, Department of Computer Science, The University of Texas at Austin, September 2012.

Manos Kapritsos, Yang Wang, Vivien Quema, Allen Clement, Lorenzo Alvisi, and Mike Dahlin. “EV: Replicating Multithreaded Servers”. *Poster at the 23rd ACM Symposium on Operating Systems Principles (SOSP)*, Cascais, Portugal, October 2011.

Yang Wang, Lorenzo Alvisi, and Mike Dahlin. “Gnothi: Separating Data and Metadata for Efficient and Available Storage Replication”, *Poster at 2012 USENIX Annual Technical Conference (USENIX ATC)*, Boston, MA, June 2012.

Allen Clement, Manos Kapritsos, Sangmin Lee, Yang Wang, Lorenzo Alvisi, Mike Dahlin, and Taylor Riche. “UpRight Cluster Services”. *Poster at the 22nd ACM Symposium on Operating Systems Principles (SOSP)*, Big Sky, MT, October 2009.

PRESENTATIONS

“Exalt: Empowering Researchers to Evaluate Large-Scale Storage Systems”. At *11th USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, Seattle, WA, April, 2014.

“Exalt: Empowering Researchers to Evaluate Large-Scale Storage Systems”. Invited talk at Facebook, Mountain View, CA, August 2013.

“Robustness in the Salus scalable block store”. At *10th USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, Lombard, IL, April 2013.

“Gnothi: Separating Data and Metadata for Efficient and Available Storage Replication”. At *2012 USENIX Annual Technical Conference (USENIX ATC)*, Boston, MA, June 2012.

PROFESSIONAL  
EXPERIENCE

External reviewer of *ACM Transactions on Parallel Computing (TOPC)*.

External reviewer of *Eurosys 2014*.

External reviewer of the *Nineteenth Annual International Conference on VLSI Design Automation in Asia and South Pacific region (ASP-DAC 2014)*

External reviewer of *The Fourth International Workshop on Hot Topics in Peer-to-peer computing and Online Social neTworking (HotPOST 2012)*

TEACHING  
EXPERIENCE

Teaching Assistant at the University of Texas at Austin, 2008 - 2009

- CS345 Programming Languages, Spring 2009.
- CS352 Computer Systems Architecture, Fall 2008.