

Yuhua Lin

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EDUCATION	<i>Doctorate of Philosophy in Computer Engineering</i> Clemson University, GPA: 3.75/4.00	August 2016 Clemson, SC
	<i>Master of Engineering in Computer Science and Technology,</i> Sun Yat-Sen University, Cumulative Overall GPA: 3.8/4.0; Major 3.9/4.0	June 2012 GuangZhou, China
	<i>Bachelor of Engineering in Software Engineering,</i> Sun Yat-Sen University, Cumulative Overall GPA: 3.81/4.00; Major 3.90/4.00; Ranked 4 out of 68	June 2009 GuangZhou, China
RESEARCH EXPERIENCE	Research Assistant, Clemson University • Effective and economical content delivery and storage strategies for cloud systems • Effective file storage system • Enhancing performance of distributed systems	June 2011 to 2016
	Research Assistant, Sun Yat-Sen University • Analyzed scheduling and optimization problems in emergency relief • Researched on the application of heuristic algorithms, e.g., using genetic algorithm in e-emergency resources scheduling	January 2009 - May 2011
SELECT PROJECT EXPERIENCE	Effective content delivery strategy for cloud systems • Proposed and implemented an economical and deadline-driven video flow scheduling system to reduce the bandwidth costs of inter-datacenter transfers • Implemented the scheduling system in PlanetLab using Java, a distributed testbed with nodes deployed globally • Simulated the scheduling system in Amazon EC2 platform Adaptive file replication system in data-intensive clusters • Proposed using time-varying file popularities to achieve a good tradeoff between data availability and efficiency • Implemented in Clemson University's Palmetto Supercomputer Cluster, with 300 servers in 10 racks • Simulate the file access pattern using the CTH trace data Reputation based Question and Answering system • Proposed using a category and theme based reputation system to evaluate users' expertise in various kinds of questions • Crawled 10GB+ data from Yahoo!Answers, analyzed user data using Hadoop MapReduce • Develop an online Question and Answering system using Java Applet framework and MySQL database, tested the system with 42 students Social image sharing application on windows phone	March 2015 to March 2016 July 2014 to March 2015 June 2013 to September 2014 August 2011 to December 2011

SKILLS	Java, Python, C/C++, PHP, MySQL	
WORK EXPERIENCE	Shenzhen IMSL Key Lab, Shenzhen, China June 2010 - August 2010 <ul style="list-style-type: none"> • Participated in developing Ad'Com system • worked on data mining and clustering, practice in C and C++ Software Factory of Sun Yat-sen University, Guangzhou, China June 2008 - June 2009 <ul style="list-style-type: none"> • Researched on mass data storing and information extracting • Lead a team of 4 in developing a health care management system, which is serving hundreds of people in GuangZhou 12nd hospital 	
CONFERENCE PUBLICATION	<ul style="list-style-type: none"> • Y. Lin and H. Shen, VShare: A Wireless Social Network Aided Vehicle Sharing System Using Hierarchical Cloud Architecture, <i>Proc. of the IEEE International Conference on Internet-of-Things Design and Implementation (IoTDI)</i>, April 4-8, 2016, Berlin, Germany • Y. Lin, H. Shen and L. Chen, EcoFlow: An Economical and Deadline-Driven Inter-Datcenter Video Flow Scheduling System, short paper, <i>Proc. of the 22nd ACM International Conference on Multimedia</i>, Oct. 26th - 30th, 2015, Brisbane, Queensland, Australia • Y. Lin and H. Shen, AutoTune: Game-based Adaptive Bitrate Streaming in P2P-Assisted Cloud-Based VoD Systems, <i>Proc. of the IEEE International Conference on Peer-to-Peer Computing (P2P)</i>, September 21-35, 2015, Cambridge, MA • Y. Lin and H. Shen, Leveraging Fog to Extend Cloud Gaming for Thin-Client MMOG with High Quality of Experience, <i>Proc. of the 44th International Conference on Parallel Processing (ICPP)</i>, September 1-September 4, 2015, Beijing, China • Y. Lin and H. Shen, An Energy-Efficient Adaptive File Replication System In Data-Intensive Clusters, <i>Proc. of the 24th International Conference on Computer Communications and Networks (ICCCN)</i>, August 3-August 6, 2015, Las Vegas, Nevada [Best Paper Runner-up Award] • Y. Lin and H. Shen, SmartQ: A Question and Answer System for Supplying High-Quality and Trustworthy Answers, <i>Proc. of the International Conference on Parallel and Distributed Systems (ICPADS)</i>, Dec. 16-19, 2014, Hsinchu, Taiwan • H. Shen, Y. Lin and H. Chandler, Interest-based Per-Community P2P Hierarchical Structure for Short Video Sharing on YouTube, <i>Proc. of the 34th International Conference on Distributed Computing Systems (ICDCS)</i>, June 30-July 3, 2014, Madrid, Spain 	
JOURNAL PUBLICATION	<ul style="list-style-type: none"> • Y. Lin and H. Shen, AutoTune: Game-based Adaptive Bitrate Streaming in Cloud-Based Hybrid VoD Systems, <i>IEEE Transactions on Services Computing (TSC)</i>, Accepted on Aug 30, 2016 • Y. Lin and H. Shen, CloudFog: Leveraging Fog to Extend Cloud Gaming for Thin-Client MMOG with High Quality of Experience, <i>IEEE Transactions on Parallel and Distributed Systems (TPDS)</i>, Accepted on May 3, 2016 • H. Shen, Y. Lin, K. Sapra and Z. Li, Enhancing Collusion Resilience in Reputation Systems, <i>IEEE Transactions on Parallel and Distributed Systems (TPDS)</i>, Issue: 99, pp: 1, 2015 • T. Li, Y. Lin and H. Shen, A Locality-Aware Similar Information Searching Scheme, <i>International Journal on Digital Libraries</i>, 2014, Issue: 99, pp: 1-15, 2014 • H. Shen, Y. Lin and J. Li, Social Network-aided Efficient Peer-to-Peer Live Streaming System, <i>IEEE/ACM Transactions on Networking (TON)</i>, Vol. 23, no. 3, pp. 987-1000, 2015 • H. Shen, Y. Lin and T. Li, Combining Efficiency, Fidelity and Flexibility in Resource Information Services, <i>IEEE Transactions on Computers (TC)</i>, Vol. 62, no. 2, pp. 353-367, 2015 	

- H. Shen, Z. Li, **Y. Lin** and J. Li, SocialTube: P2P-assisted Video Sharing in Online Social Networks, *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 25, no. 9, pp. 2428-2440, 2014
- H. Shen, **Y. Lin**, Z. Li, Refining Reputation to Truly Select High-QoS Servers in Peer-to-Peer Networks, *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 24, no. 12, pp. 2439-2450, 2014

POSTER

- H. Wang, H. Shen and **Y. Lin**, Proactive Incast Congestion Control In A Datacenter Serving Web Application, *ACM Symposium on Cloud Computing (SOCC), Poster Session*, October 5-7, 2016, Santa Clara, CA
- **Y. Lin**, H. Shen and L. Chen, An Economical and Deadline-Driven Inter-Datacenter Video Flow Scheduling System, *Proc. of The 35th International Conference on Distributed Computing Systems (ICDCS) Poster Session*, June 29th - July 2nd, 2015, Columbus, Ohio
- **Y. Lin** and H. Shen, Leveraging Fog to Extend Cloud Gaming for Thin-Client MMOG with High Quality of Experience, *Proc. of The 35th International Conference on Distributed Computing Systems (ICDCS) Poster Session*, June 29th - July 2nd, 2015, Columbus, Ohio

AWARDS

IEEE International Conference on Computer Communications and Networks Best Paper Runner-up Award August 2015
 NSF Student Travel Grant, IEEE International Conference on Distributed Computing Systems June 2015
 Excellent Graduates of Sun Yat-sen University June 2009
 Excellent Dissertation for Bachelor Degree of Sun Yat-sen University June 2009
 Level 1 Scholarship (5%), Sun Yat-sen University 2007-2008
 Level 2 Scholarship (15%), Sun Yat-sen University 2006-2007, 2005-2006

PROFESSIONAL ACTIVITIES

Reviewer for Journals

IEEE Transactions on Parallel and Distributed Systems (TPDS)
 Journal of Parallel and Distributed Computing
 Scalable Computing
 Computer Networks
 ACM Computing Surveys

External Reviewer (Journals)

IEEE/ACM Transactions on Networking (TON)
 IEEE Transactions on Computers (TC)
 IEEE Transactions on Cloud Computing (TCC)

External Reviewer (Conferences)

2012-2016 IEEE International Conference on Computer Communications (INFOCOM)
 2015 IEEE International Conference on Computer Communications and Networks (ICCCN)
 2015 IEEE International Conference on Parallel Processing (ICPP)
 2014 IEEE International Conference on Network Protocols (ICNP)
 2012-2014 IEEE International Conference on Distributed Computing Systems (ICDCS)
 2012-2014 IEEE International parallel & Distributed Processing Symposium (IPDPS)
 2012-2013 IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)
 2013 ACM International World Wide Web Conference (WWW)