

SUMMARY	Phd working on hardware-software co-design to improve system performance and energy efficiency. Strong backgrounds on architecture and operating system fundamentals. Skilled at programming and scripting, and passionate about wide areas/topics, such as OS, compilation, and deep learning (see <a href="#">tech blog</a> and <a href="#">notes</a> ).		
EDUCATION	<b>Ph.D. in Computer Science</b> (GPA: 3.63/4.0) University of Pittsburgh, Pittsburgh, USA • Thesis: "Addressing Prolonged Restore Challenges in Further Scaling DRAMs" <b>M.S. in Computer Science</b> (GPA: 3.63/4.0) University of Pittsburgh, Pittsburgh, USA • Project: "Improve Large-Scale System Reliability via Enhanced Memory Protection" <b>B.E. in Software Engineering</b> (GPA: 90/100.0) Northwestern Polytechnical University (NPU), Xi'an, China • Thesis: "DNA Cryptography based on DNA Fragment Assembly" (pub in ICIDT'2012)	Aug 2011 - Jul 2017   	

[Database]	<b>Comparison of NoSQL Databases</b>	cs3550: adv. topics in data management
	Compare MongoDB and AsterixDB on YCSB under different query types and secondary indexing.	
[HCI]	<b>Real-time Twitter Posts using Arduino and Sensors</b>	cs2610: research topics in HCI
	Monitor micro-oven using Arduino and sensors, and post twitter statuses to broadcast the info.	
RESEARCH	<b>Memory System</b> , GPU, Computer Architecture and Systems, Software-Hardware Co-design	
Publications	8 conference, 1 journal and 1 poster papers (full-list, Google Citation, DBLP)	
[C8]	Xianwei Zhang, Youtao Zhang, Bruce R. Childers and Jun Yang	PACT'2017
	- DrMP: Mixed Precision-Guided DRAM Restore for High Performance Approximate and Precise Computing. The 26th International Conference on Parallel Architectures and Compilation Techniques (PACT), Portland, Oregon, USA, 2017.	
[J1]	Xianwei Zhang, Youtao Zhang, Bruce R. Childers and Jun Yang	TODAES'2017
	- On the Restore Time Variations of Future DRAM Memory. ACM Trans. on Design Automation of Electronic Systems, Vol. 22(2), 26:1-26:24.	
[C7]	Xianwei Zhang, Youtao Zhang, Bruce R. Childers and Jun Yang	HPCA'2016
	- Restore Truncation for Performance Improvement in Future DRAM Systems. The 22nd IEEE Symp. on High Performance Computer Architecture, Barcelona, Spain, 2016.	
[C6]	Xianwei Zhang, Lei Jiang, Youtao Zhang, Chuanjun Zhang and Jun Yang	ISLPED'2013
	- WoM-SET: Lowering Write Power of Proactive-SET based PCM Write Strategy Using WoM Code. The 19th Int'l Symp. on Low Power Electronics and Design, Beijing, China, 2013.	
	*** Best Paper Award ***	
HONORS & AWARDS	<b>Andrew Mellon Predoctoral Fellowship</b>	University of Pittsburgh'2016
	- awarded to Phd students of exceptional achievement and promise	
	Student Travel Awards	HPCA'2016, SPAA'2015, CS Dept.'2016&2015
	<b>Best Paper Award</b>	ISLPED'2013
	- based on the rating of anonymous reviewers and a panel of judges	
	Recipient of 2011 graduation design (Thesis) key support fund	NPU'2011
	- small research grant for undergraduate thesis project, 2.5% funding rate	
	<b>Tencent® Technology Excellence Scholarship</b>	Tencent Inc.'2009
	- top grade, 3 winners NPU-wide	
MISC	<b>Homepage:</b>	<a href="https://xianweiz.github.io">https://xianweiz.github.io</a>
	<b>Github:</b>	<a href="https://github.com/xianweiz">https://github.com/xianweiz</a>
	<b>Blog:</b>	<a href="http://iarchsys.com">http://iarchsys.com</a>
	<b>Linkedin:</b>	<a href="https://www.linkedin.com/in/xianweizhang/">https://www.linkedin.com/in/xianweizhang/</a>