# Ping Zhou, Ph.D.

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### **Education**

University of Pittsburgh

Pittsburgh, PA

Ph.D., Computer Engineering

Jan. 2008 - Apr. 2012

- Research Area: Computer Architecture, Emerging Memory/Storage Technologies

Shanghai Jiao Tong University

Shanghai, China

M.S., Computer Science

Sep. 2001 - Mar. 2004 Shanghai, China

Shanghai Jiao Tong University

Sep. 1997 - Jul. 2001

B.S., Computer Science

### **Professional**

### Google (Mountain View, CA)

System Integration Engineer, Google Assistant

Sep. 2018 - Present

- Help strategic partners integrate Google Assistant/Chromecast in smart devices
- Successfully launched multiple smart speaker/TV/STB products with built-in Google Assistant
- Help on Google Brain/Al chip: model optimization, development and exploration

## Alibaba (Sunnyvale, CA)

Alibaba Infrastructure Service

Staff Engineer, Storage Archtect

Jul. 2016 - Aug. 2018

- Alibaba Open Channel SSD Project (Leader and Architect)
- Deployment of 3D XPoint Technology in Alibaba (Technical Leader)
- Strategic Analysis and Pathfinding

## Intel (Folsom, CA)

NVM Solutions Group (NSG)

Senior Firmware Engineer

Jan. 2013 - Jul. 2016

- 3D XPoint Product (Optane) Development
- NAND SSD Product Development (P3700, P4500)

## Intel (Chandler, AZ)

Service Provider Division (SPD)

Senior Software Engineer

Feb. 2012 - Jan. 2013

- Firmware/driver development, Streaming Media Driver

## Intel (Shanghai)

Digital Home Group (DHG)

Software Engineer

Oct. 2003 - Nov. 2007

- Stream Media Driver and Platform Software

## **Licenses and Certifications**

Google Cloud Certified - Professional Cloud Architect, Dec. 2019

## **Publications & Patents**

- Ping Zhou, et. al "Universal and automatic end-to-end testing of smart TVs", Technical Disclosure Commons (Invention Disclosure), Dec. 2019.
- Ping Zhou, et. al "Alibaba Open Channel SSD for Next-Generation Data Centers", Flash Memory Summit (FMS), Aug. 2018.
- **Ping Zhou**, Bo Zhao, Youtao Zhang, Jun Yang "Throughput Enhancement for Phase Change Memories", IEEE Transactions on Computers, DOI: 10.1109/TC.2013.76, Mar. 2013.
- Ping Zhou, Youtao Zhang, Jun Yang "The Design of Sustainable Wireless Sensor Network Node using Solar Energy and Phase Change Memory" (Poster), Design, Automation & Test in Europe (DATE), Mar. 2013.
- **Ping Zhou**, Bo Zhao, Youtao Zhang, Jun Yang, Yiran Chen "MRAC: A Memristor-based Reconfigurable Framework for Adaptive Cache Replacement" (Poster), The 20th International Conference on Parallel Architectures and Compilation Techniques (PACT), Oct. 2011.
- **Ping Zhou**, Yu Du, Youtao Zhang, Jun Yang, "Fine-Grained QoS Scheduling for DRAM/PCM Hybrid Memory Systems", 2011 Non-Volatile Memories Workshop (Poster), March 2011.
- Ping Zhou, Yu Du, Youtao Zhang, Jun Yang, "Fine-Grained QoS Scheduling for PCM-based Main Memory Systems", The 24th IEEE International Parallel & Distributed Processing Symposium (IPDPS-2010), April 2010.
- Benjamin Lee, Ping Zhou, Jun Yang, Youtao Zhang, Bo Zhao, Engin Ipek, Onur Mutlu, Doug Burger, "Phase Change Technology and the Future of Main Memory", IEEE Micro, vol. 30, no. 1, pp. 143-143, Jan./Feb. 2010.
- **Ping Zhou**, Bo Zhao, Jun Yang, Youtao Zhang, "Energy Reduction for STT-RAM Using Early Write Termination", IEEE/ACM 2009 International Conference on Computer-Aided Design (ICCAD-2009), pp. 264-268, November, 2009.
- **Ping Zhou**, Bo Zhao, Jun Yang, Youtao Zhang, "A Durable and Energy Efficient Main Memory Using Phase Change Memory Technology", The 36th International Symposium on Computer Architecture (ISCA-2009), pp. 14-23, June, 2009.
- **Ping Zhou**, Bo Zhao, Yu Du, Yi Xu, Youtao Zhang, Jun Yang, Li Zhao, "Frequent Value Compression in Packet-based NoC Architectures", The 14th Asia and South Pacific Design Automation Conference (ASP-DAC 2009), pp. 13-18, January 2009.

### **Professional Service Activities**

- PC Member (Computer Systems), International Conference on Computer Design (ICCD), Nov. 2019.
- PC member (Computer Systems), International Conference on Computer Design (ICCD), Oct. 2018.
- PC member (Architecture), IEEE International Conference on Networking, Architecture, and Storage (NAS), Aug. 2015.
- PC member (Architecture), IEEE International Conference on Networking, Architecture, and Storage (NAS), Aug. 2014.
- Reviewer, IEEE Embedded Systems Letters (ESL), 2018, 2017, 2016, 2015, 2013