Yunqi Zhang

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RESEARCH

My research interests lie in datacenter computer architecture and system. Currently, I am working on improving the energy efficiency and performance of datacenter computer architecture through software techniques.

EDUCATION

Doctor of Philosophy, in Computer Science and Engineering
University of Michigan, Ann Arbor — 2013 - Present
- Advisors: Prof. Lingjia Tang, Prof. Jason Mars

Master of Science, in Computer Science and Engineering — Completed 44 credits
University of California, San Diego — 2012 - 2013

Bachelor of Science, in Software Engineering — Graduated with honors
Beijing Institute of Technology — 2008 - 2012

PUBLICATIONS

`Johann Hauswald, Yunqi Zhang, Michael A. Laurenzano, Cheng Li, Austin Rovinski, Arjun Khurana, Ron Dreslinski, Vinicius Petrucci, Trevor Mudge, Lingjia Tang, and Jason Mars.` Sirius: An Open End-to-End Voice and Vision Personal Assistant and Its Implications for Future Warehouse Scale Computers. *Proceedings of the 20th International Conference on Architectural Support for Programming Languages and Operating Systems.* **(ASPLOS 2015)**

`Chang-Hong Hsu, Yunqi Zhang, Michael A. Laurenzano, David Meisner, Thomas Wenisch, Lingjia Tang, Jason Mars, and Ron Dreslinski.` Adrenaline: Pinpointing and Reining in Tail Queries with Quick Voltage Boosting. *Proceedings of the 2015 IEEE 21st International Symposium on High Performance Computer Architecture.* **(HPCA 2015)**

`Vinicius Petrucci, Michael A. Laurenzano, Yunqi Zhang, John Doherty, Daniel Mosse, Jason Mars, and Lingjia Tang.` Octopus-Man: QoS-Driven Task Management for Heterogeneous Multicore in Warehouse Scale Computers. *Proceedings of the 2015 IEEE 21st International Symposium on High Performance Computer Architecture.* **(HPCA 2015)**

`Yunqi Zhang, Michael Laurenzano, Jason Mars, Lingjia Tang.` SMiTe: Precise QoS Prediction on Real-System SMT Processors to Improve Utilization in Warehouse Scale Computers. *Proceedings of the 47th Annual IEEE/ACM International Symposium on Microarchitecture.* **(MICRO 2014)**

`Michael Laurenzano, Yunqi Zhang, Lingjia Tang, Jason Mars.` Protean Code: Achieving Near-Free Online Code Transformations for Warehouse Scale Computers. *Proceedings of the 47th Annual IEEE/ACM International Symposium on Microarchitecture.* **(MICRO 2014)**

EXPERIENCE

Graduate Student Researcher — Sep. 2013 - Present
University of Michigan, Ann Arbor, MI

Research Collaborator — Oct. 2014 - Present
Facebook, Menlo Park, CA

Research Intern — May. 2014 - Aug. 2014
Facebook, Menlo Park, CA

Software Engineer Intern — Jun. 2013 - Oct. 2013
Facebook, Menlo Park, CA

Graduate Student Researcher — Sep. 2012 - Jun. 2013
University of California, San Diego, CA

Software Engineer Intern — Nov. 2011 - Jan. 2012
IBM, Beijing, China

Research Intern — Jul. 2011 - Nov. 2012
Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China

HONORS

Chinese Academy of Sciences Scholarship, 2012
National Scholarship, 2011
Microsoft Scholarship, 2010
Meritorious Winner of the Interdisciplinary Contest in Modeling, COMAP, 2010

SKILLS

Programming Languages: Assembly, C, C++, Python, Bash, Java, MATLAB, R
Programming Frameworks: Lex, Yacc, CUDA, MPI, OpenMP, Libevent
Other tools: Gem5, BigHouse, PinTool, Intel Hardware Performance Counters

RELEVANT GRADUATE COURSES

University of Michigan, Ann Arbor

- EECS 545: Machine Learning
- EECS 583: Advanced Compiler
- EECS 584: Advanced Database Management Systems
- STATS 406: Introduction to Statistical Computing

University of California, San Diego

- CSE 202: Algorithm Design and Analysis
- CSE 222A: Computer Communication Networks
- CSE 240A: Principles of Computer Architecture
- CSE 240B: Parallel Computer Architecture
- CSE 260: Parallel Computation