Shuang Chen

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 \mathbf{Email}

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EDUCATION

Cornell University, NY, USA.

Aug 2015 \sim Present

Ph.D. Student, Computer Systems Laboratory, Department of ECE

- GPA: **3.9**/4.0

- Committee: José F. Martínez (advisor), Christina Delimitrou, Robbert van Renesse

Shanghai Jiao Tong University, China

B.S., Computer Science (SJTU ACM Elite Class), Zhiyuan College

Sept $2011 \sim \text{July } 2015$

- Overall GPA: **90.6**/100 Major GPA: **91.5**/100

PUBLICATIONS

- Shuang Chen, Shay Galon, Christina Delimitrou, Srilatha Manne, and José F. Martínez, "Workload Characterization of Interactive Cloud Services on Big and Small Platforms," in the 2017 IEEE International Symposium on Workload Characterization (IISWC), Oct 2017.
- Xiaodong Wang, **Shuang Chen**, Jeff Setter and José F. Martínez, "SWAP: Effective Fine-grain Management of Shared Last-level Caches with Minimum Hardware Support," in the 23rd IEEE HPCA International Conference on High Performance Computer Architecture (HPCA), Feb 2017.
- Shuang Chen, Shunning Jiang, Bingsheng He and Xueyan Tang, "A Study of Sorting Algorithms Using Approximate Storage," in the 2016 ACM SIGMOD International Conference on Management of Data (SIGMOD), June 2016.
- Naifeng Jing, Shunning Jiang, Shuang Chen, Jinjie Zhang, Li Jiang, Chao Li and Xiaoyao Liang, "Bank Stealing for a Compact and Efficient Register File Architecture in GPGPU," in *IEEE Transactions on* Very Large Scale Integration (VLSI) Systems, 2016.
- Naifeng Jing, Shuang Chen, Shunning Jiang, Li Jiang and Xiaoyao Liang, "Bank Stealing for Conflict Mitigation in GPGPU Register File," in the 2015 ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED), July 2015.

HONORS AND AWARDS

- Cornell Graduate Fellowship, Cornell University, 2015
- Outstanding Graduate, Shanghai Jiao Tong University, 2015 (top 1%)
- Outstanding Graduate in Zhiyuan College, Shanghai Jiao Tong University, 2015 (top 12)
- Kai Yuan Scholarship, Shanghai Jiao Tong University, 2013 (top 20 in Zhiyuan College)
- ACM-ICPC (International Collegiate Programming Contest) Asia Regional
 - 4th place in Hsinchu Site, 2011 (Team TrustMe)
 - Gold medal in Beijing Site, 2011 (Team TrustMe)
- Silver medal (ranked the 64th) in National Olympiad in Informatics, China, 2010

WORK AND RESEARCH EXPERIENCES

Software Engineering Intern at Cavium Inc.

San José, CA, USA.

Summer 2016

- Manager and Mentor: Bobbie Manne
 - Cache and memory system in Cavium ThunderX2
 - Performance analysis of cloud applications

Graduate Research Assistant at M³ Architecture Research Group

Computer Systems Laboratory, Cornell University, NY, USA.

August 2015 \sim Present

- Advisor: José F. Martínez
 - Optimization of cache and memory systems
 - Resource management in datacenters and large-scale systems

Undergraduate Research Assistant at Xtra Computing Group

Parallel and Distributed Computing Centre

Nanyang Technological University, Singapore

August $2014 \sim \text{Feb } 2015$

- Advisors: Bingsheng He and Xueyan Tang
 - Approximate database systems

Undergraduate Research Assistant at Advanced Computer Architecture Laboratory

Shanghai Jiao Tong University, China

July 2013 \sim June 2014

- Advisor: Xiaoyao Liang
 - Optimization of GPGPU Register File

TEACHING EXPERIENCE

Head Teaching Assistant of Computer Systems Programming (ECE2400)

Cornell University, USA Spring 2017

Teaching Assistant of Computer Architecture (ECE4750/CS4420)

Cornell University, USA Fall 2016

Teaching Assistant of C++ Programming (CS110)

Shanghai Jiao Tong University, China Fall 2012

SKILLS

- Programming and Software:
 - Proficient: Pascal, C, C++, Java, Python, MySQL, LATEX, Matlab.
 - Basic: Verilog DHL, OpenCL, CUDA.
- Language: Chinese (native), English
- Electronic organ, Certificate of Musical Level Ten in China (highest level for amateurs).