

Qiao Zhang

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qiao@cs.washington.edu

EDUCATION

UNIVERSITY OF WASHINGTON

PH.D IN COMPUTER SCIENCE

Expected June 2018 | Seattle, WA

GPA: 3.9 / 4.0

Advisor: Tom Anderson, Arvind Krishnamurthy

WILLIAMS COLLEGE

BA IN COMPUTER SCIENCE AND PHYSICS

June 2013 | Williamstown, MA

summa cum laude and Phi Beta Kappa

GPA: 3.99 / 4.0

CALTECH

VISITING STUDENT

Oct 2011 - June 2012 | Pasadena, CA

GPA: 4.0 / 4.0

RESEARCH INTERESTS

Distributed Systems, Datacenter Networks, Deep Learning Systems

COURSEWORK

MACHINE LEARNING

CSE 546: Machine Learning

CSE 517: Natural Language Processing

CSE 515: Statistical Methods in Computer Science

SYSTEMS

CSE 550: Computer Systems

CSE 551: Operating Systems

CSE 552: Distributed Systems

CSE 548: Computer Architecture

CSE 544: Data Management

CSE 504: Advanced Topics in Software Engineering

TEACHING ASSISTANT

Deep Learning System (UW CSE 599G1)

Operating Systems (UW CSE 451)

Computer Networks (UW CSE 461)

PROGRAMMING

Fluent:

C++ • C • Python • Java

Familiar:

C# • MySQL

EXPERIENCE

MICROSOFT RESEARCH | RESEARCH INTERN, SYSTEMS

June 2017 – Sep 2017 | Redmond, WA

- Designed and built a streaming system that can diagnose and localize failures responsible for IaaS VMs crashes using the machine learning techniques of Lasso Regression and Hypothesis Testing. Submitted a research paper to top networking conference NSDI 2018.

FACEBOOK | SOFTWARE ENGINEERING INTERN, NET SYSTEMS

July 2016 - Oct 2016 | Palo Alto, CA

- Worked on a scalable TCP incast detection system that instruments end-host TCP stack using bcc and collects TCP statistics using an internal streaming system. Submitted a research paper to top networking workshop IMC 2017.

GOOGLE | SOFTWARE ENGINEERING INTERN, PLATFORMS NETWORKING

Sept - Dec 2015 | Mountain View, CA

- Worked on network topology synthesis using Integer Program Solver.
- Worked on data center network measurements.

GOOGLE | SOFTWARE ENGINEERING INTERN, MAPREDUCE

June - August 2014 | Mountain View, CA

- Worked on fine-grained locking to improve transaction throughput for the 2nd generation MapReduce backend.

PUBLICATIONS

- Qiao Zhang, Vincent Liu, Hongyi Zeng, Arvind Krishnamurthy. "High-Resolution Measurement of Data Center Microbursts". IMC 2017.
- Danyang Zhuo, Qiao Zhang, Xin Yang, Vincent Liu "Canaries in the Network". HotNets 2016.
- Danyang Zhuo, Qiao Zhang, Tom Anderson, Arvind Krishnamurthy, Vincent Liu "Rack-level Congestion Control". HotNets 2016.
- Danyang Zhuo, Qiao Zhang, Dan Ports, Arvind Krishnamurthy and Tom Anderson "Machine Fault Tolerance for Reliable Datacenter Systems". APSYS 2014.
- Simon Peter, Umar Javed, Qiao Zhang, Doug Woos, Tom Anderson, and Arvind Krishnamurthy. "One Tunnel is Enough". SIGCOMM 2014.
- Qiao Zhang, Shyam Gollokota, Ben Taskar, Rajesh Rao. "A Non-invasive Tongue Machine Interface". CHI 2014.

AWARDS

2008 National Mathematics Olympiad (Singapore) Silver Medal

2007 National Physics Olympiad (Singapore) Bronze Medal

GITHUB

Homepage
Distributed Lock Service Using Paxos
AutoDiff for Deep Learning
GPU Executor for Deep Learning

github.com/zhangqiaorjc/
github.com/zhangqiaorjc/cse550
github.com/dlsys-course/assignment1
github.com/dlsys-course/assignment2