## **Danyang Zhuo**

CONTACT INFORMATION

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Seattle, WA 98105 USA

**EDUCATION** University of Washington - Seattle

Sep 2013 – Present

Ph.D. in Computer Science and Engineering

Thesis: Towards Efficient and Reliable Data Center Systems

Advisors: Prof. Thomas E. Anderson and Prof. Arvind Krishnamurthy

University of Illinois - Urbana Champaign Aug 2009 – May 2013

B.S. in Electrical Engineering with Highest Honor

Advisor: Prof. Nitin Vaidva

PROFESSIONAL EXPERIENCE

Microsoft Research Oct 2015 – Feb 2017

Part-time contractor (through Populus Group)

Microsoft Research Jun 2015 – Sep 2015

Research Intern

**Google** Sep 2014 – Mar 2015

Software Development Engineering Intern

Amazon Web Service May 2013 – Sep 2013

Software Development Engineering Intern

Microsoft Azure May 2012 – Aug 2012

Software Development Engineering Intern

**PUBLICATIONS** 

- [9] Kaiyuan Zhang, **Danyang Zhuo**, Aditya Akella, Arvind Krishnamurthy, Xi Wang. *Design and Verification of Software Middleboxes using Gravel*. In Submission.
- [8] **Danyang Zhuo**, Kaiyuan Zhang, Yibo Zhu, Hongqiang Harry Liu, Matthew Rockett, Arvind Krishnamurthy, Thomas E. Anderson. *Slim: OS Kernel Support for a Low-Overhead Container Overlay Network*. The 16th USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2019.
- [7] Qiao Zhang, **Danyang Zhuo**, Vincent Liu, Petr Lapukhov, Simon Peter, Arvind Krishnamurthy, Thomas E. Anderson. *Volur: Concurrent Edge/Core Route Control in Data Center Networks*. arXiv, 2018.
- [6] **Danyang Zhuo**, Monia Ghobadi, Ratul Mahajan, Klaus-Tycho Förster, Arvind Krishnamurthy and Thomas E. Anderson. *Understanding and Mitigating Packet Corruption in Data Center Networks*. In Proceedings of the Conference of the ACM Special Interest Group on Data Communication (SIGCOMM), 2017.
- [5] **Danyang Zhuo**, Monia Ghobadi, Ratul Mahajan, Amar Phanishayee, Xuan Kelvin Zou, Hang Guan, Arvind Krishnamurthy and Thomas E. Anderson. *RAIL: A Case for Redundant Arrays of Inexpensive Links in Data Center Networks*. The 14th USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2017.
- [4] **Danyang Zhuo**, Qiao Zhang, Xin Yang, Vincent Liu. *Canaries in the Network*. The 15th ACM Workshop on Hot Topics in Networks (HotNets), 2016.
- [3] **Danyang Zhuo**, Qiao Zhang, Vincent Liu, Arvind Krishnamurthy, Thomas E. Anderson. *Rack-level Congestion Control*. The 15th ACM Workshop on Hot Topics in Networks (HotNets), 2016.

- [2] Vincent Liu, **Danyang Zhuo**, Simon Peter, Arvind Krishnamurthy and Thomas E. Anderson. Subways: A Case for Redundant, Inexpensive Data Center Edge Links. The 13th International Conference on emerging Networking EXperiments and Technologies (CoNEXT), 2015.
- [1] Danyang Zhuo, Qiao Zhang, Dan Ports, Arvind Krishnamurthy, Thomas E. Anderson. Machine Fault Tolerance for Reliable Datacenter Systems. The 5th Asia-Pacific Workshop on Systems (APSys), 2014.

**PATENTS** 

[1] Monia Ghobadi, Ratul Mahajan, Amar Phanishayee, **Danyang Zhuo**, Xuan Kelvin Zou. *Data* Center Topology Having Multiple Classes of Reliability. US Patent 20170302565A1. WIPO Patent 2017180450A1.

**AWARDS** 

Madrona Prize Runner-Up, University of Washington - Seattle 2018

Hacherl Endowed Fellowship, University of Washington - Seattle 2013 - 2014

Ellery B. Paine Outstanding Junior Award, University of Illinois - Urbana Champaign 2012

2012

2018

Autumn 2017

Rank 146th in the William Lowell Putnam Mathematical Competition

**TEACHING Introduction to Operating Systems (CSE 451) EXPERIENCE** 

University of Washington - Seattle

Teaching Assistant

**Introduction to Computer Communication Networks (CSE 461)** Spring 2014

University of Washington - Seattle

Teaching Assistant

Samantha Miller (Ph.D.)

**STUDENTS MENTORING**  Kaiyuan Zhang (Ph.D.) 2017-2018

2017-2018 Matthew Rockett (B.S./M.S.)

Shibin Xu (B.S.) 2018

**SERVICE** Reviewer

> **IEEE Transactions on Cloud Computing** 2018

> IEEE/ACM Transactions on Networking 2017-2018

> 2017-2018 Journal of Network and Computer Applications

**Department Service** 

**UW CSE Graduate Admissions Committee** 2017-2018

REFERENCES **Thomas E. Anderson** 

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Warren Francis and Wilma Kolm Bradley Chair

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ghobadi@mit.edu Assistant Professor Department of Electrical Engineering and Computer Science Massachusetts Institute of Technology