

# Danyang Zhuo

<b>CONTACT INFORMATION</b>	Paul G. Allen School of Computer Science & Engineering University of Washington Seattle, WA 98105 USA	<a href="https://danyangzhuo.com">https://danyangzhuo.com</a> <a href="mailto:danyangz@cs.washington.edu">danyangz@cs.washington.edu</a>
<b>EDUCATION</b>	<b>University of Washington - Seattle</b> Ph.D. in Computer Science and Engineering Adviser: Prof. Thomas E. Anderson and Prof. Arvind Krishnamurthy  <b>University of Illinois - Urbana Champaign</b> B.S. in Electrical Engineering with Highest Honor Adviser: Prof. Nitin Vaidya	Sep 2013 – Present  Aug 2009 – May 2013
<b>PROFESSIONAL EXPERIENCE</b>	<b>Microsoft Research</b> Part-time contractor (through Populus Group)  <b>Microsoft Research</b> Research Intern  <b>Google</b> Software Development Engineering Intern  <b>Amazon Web Service</b> Software Development Engineering Intern  <b>Microsoft Azure</b> Software Development Engineering Intern	Oct 2015 – Feb 2017  Jun 2015 – Sep 2015  Sep 2014 – Mar 2015  May 2013 – Sep 2013  May 2012 – Aug 2012
<b>PUBLICATIONS</b>	<ul style="list-style-type: none"><li>[9] <b>Danyang Zhuo</b>, Kaiyuan Zhang, Yibo Zhu, Hongqiang Harry Liu, Matthew Rockett, Arvind Krishnamurthy, Thomas E. Anderson. <i>Slim: OS Kernel Support for a Low-Overhead Container Overlay Network</i>. In Submission.</li><li>[8] Kaiyuan Zhang, <b>Danyang Zhuo</b>, Aditya Akella, Arvind Krishnamurthy, Xi Wang. <i>Design and Verification of Software Middleboxes using Gravel</i>. In Submission.</li><li>[7] Qiao Zhang, <b>Danyang Zhuo</b>, Vincent Liu, Petr Lapukhov, Simon Peter, Arvind Krishnamurthy, Thomas E. Anderson. <i>Volur: Concurrent Edge/Core Route Control in Data Center Networks</i>. arXiv, 2018.</li><li>[6] <b>Danyang Zhuo</b>, Monia Ghobadi, Ratul Mahajan, Klaus-Tycho Förster, Arvind Krishnamurthy and Thomas E. Anderson. <i>Understanding and Mitigating Packet Corruption in Data Center Networks</i>. In Proceedings of the Conference of the ACM Special Interest Group on Data Communication (SIGCOMM), 2017.</li><li>[5] <b>Danyang Zhuo</b>, Monia Ghobadi, Ratul Mahajan, Amar Phanishayee, Xuan Kelvin Zou, Hang Guan, Arvind Krishnamurthy and Thomas E. Anderson. <i>RAIL: A Case for Redundant Arrays of Inexpensive Links in Data Center Networks</i>. The 14th USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2017.</li><li>[4] <b>Danyang Zhuo</b>, Qiao Zhang, Xin Yang, Vincent Liu. <i>Canaries in the Network</i>. The 15th ACM Workshop on Hot Topics in Networks (HotNets), 2016.</li><li>[3] <b>Danyang Zhuo</b>, Qiao Zhang, Vincent Liu, Arvind Krishnamurthy, Thomas E. Anderson. <i>Rack-level Congestion Control</i>. The 15th ACM Workshop on Hot Topics in Networks (HotNets), 2016.</li><li>[2] Vincent Liu, <b>Danyang Zhuo</b>, Simon Peter, Arvind Krishnamurthy and Thomas E. Anderson. <i>Subways: A Case for Redundant, Inexpensive Data Center Edge Links</i>. The 13th International Conference on emerging Networking EXperiments and Technologies (CoNEXT), 2015.</li></ul>	

	[1] <b>Danyang Zhuo</b> , Qiao Zhang, Dan Ports, Arvind Krishnamurthy, Thomas E. Anderson. <i>Machine Fault Tolerance for Reliable Datacenter Systems</i> . The 5th Asia-Pacific Workshop on Systems (APSys), 2014.	
<b>PATENTS</b>	[1] Monia Ghobadi, Ratul Mahajan, Amar Phanishayee, <b>Danyang Zhuo</b> , Xuan Kelvin Zou. <i>Data Center Topology Having Multiple Classes of Reliability</i> . US Patent 20170302565A1. WIPO Patent 2017180450A1.	
<b>AWARDS</b>	Madrona Prize Runner-Up, University of Washington - Seattle	2018
	Hachlerl Endowed Fellowship, University of Washington - Seattle	2013 – 2014
	1st place in Undergraduate Math Contest, University of Illinois - Urbana Champaign	2011, 2013
	E.C. Jordan Award, University of Illinois - Urbana Champaign	2013
	Microsoft Scholarship	2012 – 2013
	Daniel W. and Carol A. Dobberpuhl award, University of Illinois - Urbana Champaign	2012 – 2013
	Ernest A. Tolli Memorial Scholarship, University of Illinois - Urbana Champaign	2012 – 2013
	Ellery B. Paine Outstanding Junior Award, University of Illinois - Urbana Champaign	2012
	Rank 146th in the William Lowell Putnam Mathematical Competition	2012
<b>TEACHING EXPERIENCE</b>	<b>Introduction to Operating Systems. (CSE 461)</b> University of Washington - Seattle. Teaching Assistant	Autumn 2017
	<b>Foundations of Computing I (CSE 311)</b> University of Washington - Seattle. Tutor	Autumn 2015
	<b>Introduction to Artificial Intelligence (CSE 473)</b> University of Washington - Seattle. Tutor	Spring 2015
	<b>Introduction to Computer Communication Networks. (CSE 461)</b> University of Washington - Seattle. Teaching Assistant	Spring 2014
<b>STUDENTS MENTORING</b>	Kaiyuan Zhang (Ph.D.)	2017-2018
	Samantha Miller (Ph.D.)	2018
	Matthew Rockett (B.S./M.S.)	2017-2018
	Shibin Xu (B.S.)	2018
<b>SERVICE</b>	<b>Reviewer</b> IEEE Transactions on Cloud Computing IEEE/ACM Transactions on Networking Journal of Network and Computer Applications	2018 2017-2018 2017-2018
	<b>Department Service</b> UW CSE Graduate Admissions Committee	2017-2018
<b>REFERENCES</b>	<b>Thomas E. Anderson</b> tom@cs.washington.edu Warren Francis and Wilma Kolm Bradley Chair	

Paul G. Allen School of Computer Science and Engineering  
University of Washington

**Arvind Krishnamurthy**

arvind@cs.washington.edu

Professor

Paul G. Allen School of Computer Science and Engineering  
University of Washington

**Ratul Mahajan**

ratul@ratul.org

Associate Professor

Paul G. Allen School of Computer Science and Engineering  
University of Washington

**Manya Ghobadi**

ghobadi@mit.edu

Assistant Professor

Department of Electrical Engineering and Computer Science  
Massachusetts Institute of Technology