

Cheng Tan

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EDUCATION

New York University	New York City
Ph.D. Candidate in Computer Science	Sep 2014 – Jun 2020 (Expected)
Dissertation topic: “End-to-end verifiability of outsourced services”	
Advisor: Michael Walfish	
Fudan University	Shanghai, China
M.S. in Software School	Sep 2011 – Jun 2014
Advisor: Haibo Chen and Binyu Zang	
Nanjing University	Nanjing, China
B.E. in Software Institute	Sep 2007 – Jun 2011

EXPERIENCE

Microsoft Research	Redmond, Washington
Research Intern	Jun 2016 – Aug 2016
Systems Group at NYU	New York City
Research Assistant	Sep 2015 – Present
Institute of Parallel And Distributed Systems at Shanghai Jiao Tong University	Shanghai, China
Research Assistant and Visiting Student	Sep 2012 – Jun 2014

PUBLICATIONS AND PREPRINT

- [6] **Cheng Tan**, Changgeng Zhao, Shuai Mu, and Michael Walfish. *Detecting incorrect behavior of cloud databases as an outsider. (Under Submission)*.
- [5] **Cheng Tan**, Ze Jin, Chuanxiong Guo, Tianrong Zhang, Haitao Wu, Karl Deng, Dongming Bi, and Dong Xiang. *NetBouncer: Active Device and Link Failure Localization in Data Center Networks*. 16th USENIX Symposium on Networked Systems Design and Implementation (**NSDI 2019**).
- [4] **Cheng Tan**, Lingfan Yu, Joshua B. Leners, and Michael Walfish. *The Efficient Server Audit Problem, Deduplicated Re-execution, and the Web*. 26th ACM Symposium on Operating Systems Principles (**SOSP 2017, Best paper award**).
- [3] Yubin Xia, Yutao Liu, **Cheng Tan**, Mingyang Ma, Haibing Guan, Binyu Zang, and Haibo Chen. *TinMan: Eliminating Confidential Mobile Data Exposure with Security-oriented Offloading*. 10th European Conference on Computer Systems (**EuroSys 2015**).
- [2] **Cheng Tan**, Haibo Li, Yubin Xia, Binyu Zang, Cheng-Kang Chu, and Tieyan Li. *PreCrime to the Rescue: Defeating Mobile Malware One Step Ahead*. 5th Asia-Pacific Workshop on Systems (**APSys 2014**).
- [1] **Cheng Tan**, Yubin Xia and Haibo Chen, and Binyu Zang. *TinyChecker: Transparent Protection Of VMs Against Hypervisor Failures With Nested Virtualization*. The Second International Workshop on Dependability of Clouds, Data Centers and Virtual Machine Technology (**DCDV 2012**).

HONORS AND AWARDS

- 2017 SOSP Best Paper
- 2014 MacCracken Fellowship, NYU
- 2014 Outstanding Graduate Student, Software School, Fudan University
- 2011 Outstanding Graduate Award, Nanjing University

TEACHING EXPERIENCE

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|-----------------------------------------------------|--------------------------------------|
| Operating Systems (CSCI-UA.0202) | Spring 2015 |
| Teaching Assistant | NYU |
| Computer System Design and Implementation (X037514) | Spring 2013 |
| Teaching Assistant | Shanghai Jiao Tong University, China |

CONFERENCE AND WORKSHOP TALKS

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| NetBouncer: Active Device and Link Failure Localization in Data Center Networks. | Feb 2019 |
| Conference talk at NSDI | |
| The Efficient Server Audit Problem, the Web, the Database, and more. | May 2018 |
| Invited talk at Shanghai Jiao Tong University, Future Information Technology International Forum for Young Scholars | |
| The Efficient Server Audit Problem, Deduplicated Re-execution, and the Web. | Oct 2017 |
| Conference talk at SOSP | |
| PreCrime to the Rescue: Defeating Mobile Malware One-step Ahead. | Jun 2014 |
| Workshop talk at APSys | |