Cheng Tan

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EDUCATION

New York University — NYC
Ph.D. Candidate in Computer Science — Sep 2014 – Present
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

System Group at NYU — NYC
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

[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.* The 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.* The 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, Haibo Chen. *TinMan: Eliminating Confidential Mobile Data Exposure with Security-oriented Offloading.* The 10th European Conference on Computer Systems (**Eurosys 2015**).

[2] **Cheng Tan**, Haibo Li, Yubin Xia, Binyu Zang, Cheng-Kang Chu, Tieyan Li, Feng Bao. *PreCrime to the Rescue: Defeating Mobile Malware One Step Ahead.* The 5th Asia-Pacific Workshop on Systems (**Apsys 2014**).

[1] **Cheng Tan**, Yubin Xia and Haibo Chen, 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   MacCrachen Fellowship, NYU

2014   Outstanding Graduate Student, Software School, Fudan University

2011   Outstanding Graduate Award, Nanjing University

TEACHING EXPERIENCE

Distributed Systems (CSE 535)   May 2019
Guest Speaker   Stony Brook University

Operating Systems (CSCI-UA.0202)   2015 Spring
Teaching Assistant   NYU

Computer System Design and Implementation (X037514)   2013 Spring
Teaching Assistant   Shanghai Jiao Tong University, China

CONFERENCE AND WORKSHOP TALKS

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