

Zhiqiang Lin

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(a) Professional Preparation

Ph.D. in Computer Science, Purdue University, USA	August 2011
M.S. in Computer Science, Nanjing University, China	December 2006
B.S. in Computer Science, Nanjing University of Posts & Telecommunications, China	July 2002

(b) Appointments

Assistant Professor , Department of Computer Science, University of Texas at Dallas	Sept 2011 -
Research Assistant , Department of Computer Science, Purdue University	Jan 2007 - Aug 2011
Summer Intern , CSL, SRI International Menlo Park CA	May 2008 - Aug 2008

(c) Selected Publications

Products: Five Most Relevant Products and Publications Related to the Proposal

USENIX-SEC	F. Peng, Z. Deng, X. Zhang, D. Xu, Z. Lin , and Z. Su. "X-Force: Force-Executing Binary Programs for Security Applications", In <i>Proceedings of the USENIX Security Symposium</i> , August 2014.
NDSS	A. Saberi, Y. Fu, and Z. Lin , "Hybrid-Bridge: Efficiently Bridging the Semantic-Gap in Virtual Machine Introspection via Decoupled Execution and Training Memoization", In <i>Proceedings of the Network and Distributed System Security Symposium</i> , February 2014.
CCS	J. Zeng, Y. Fu, K. Miller, Z. Lin , X. Zhang, and D. Xu, "Obfuscation-resilient Binary Code Reuse through Trace-oriented Programming", in <i>Proceedings of the 20th ACM Conference on Computer and Communications Security</i> , Berlin, Germany, November 2013.
CCS	R. Wartell, V. Mohan, K. Hamlen, and Z. Lin , "Binary Stirring: Self-randomizing Instruction Addresses of Legacy x86 Code", In <i>Proceedings of the 19th ACM Conference on Computer and Communications Security</i> , October 2012
Oakland	Y. Fu and Z. Lin , "Space Traveling across VM: Automatically Bridging the Semantic Gap in Virtual Machine Introspection via Online Kernel Data Redirection", In <i>Proceedings of the 33rd IEEE Symposium on Security and Privacy</i> , May 2012

Five Other Significant Products and Publications

NDSS	Z. Lin , J. Rhee, C. Wu, X. Zhang, and D. Xu, "DIMSUM: Discovering Semantic Data of Interest from Un-mappable Memory with Confidence", In <i>Proceedings of the 19th Annual Network & Distributed System Security Symposium</i> , February 2012.
NDSS	Z. Lin , J. Rhee, X. Zhang, D. Xu, and X. Jiang, "SigGraph: Brute Force Scanning of Kernel Data Structure Instances Using Graph-based Signatures", In <i>Proceedings of the 18th Annual Network & Distributed System Security Symposium</i> , February 2011.
NDSS	Z. Lin , X. Zhang, D. Xu, "Automatic Reverse Engineering of Data Structures from Binary Execution", In <i>Proceedings of the 17th Proceedings of Network & Distributed Systems Security Symposium</i> , February 2010.

FSE	Z. Lin , and X. Zhang, “Deriving Input Syntactic Structure From Execution”, In <i>Proceedings of the 16th ACM SIGSOFT International Symposium on Foundations of Software Engineering</i> , November 2008. (An extended journal version is published at <i>IEEE Transactions on Software Engineering</i> , 36(5), 2010).
NDSS	Z. Lin , X. Jiang, D. Xu, and X. Zhang. “Automatic protocol format reverse engineering through context-aware monitored execution”, In <i>Proceedings of 15th Annual Network & Distributed System Security Symposium</i> , February 2008.

(d) Synergistic Activities

Panelist	NSF proposal review panels	2012
Program Co-chair	IPCCC	2013
	NGMAD (In conjunction with ACSAC)	2013
TPC Member	CCS, NDSS, ASIACCS, DFRWS, PST, SECURECOMM	2015
	CCS, ICDCS, ACSAC, CCGrid, ASIACCS, DFRWS	2014
	CCGrid, ASIACCS, DFRWS, PST, IPCCC, INSCRIPT	2013
	IPCCC, ARES, SPE, HASP	2012
Journal Reviewer	ACM TISSEC, ACM TACO, IEEE TC, IEEE TDSC, IEEE TIFS, IEEE TKDE, ACM Computing Survey, IEEE Computer Architecture Letters, Computer Networks Journal, Computer & Security, Journal of Systems and Software	
Web Administrator	SECURECOMM	2015

(e) Collaborators

Collaborators (18)	David Brumley (CMU), Juan Caballero (IMDEA), Haibo Chen (SJTU), Guofei Gu (Texas A&M), Kevin Hamlen (UT Dallas), Xuxian Jiang (Qihoo), Murat Kantarcioglu (UT Dallas), Ashish Kundu (IBM), Latifur Lkhan (UT Dallas), Charles McFarland (Intel), Junghwan Rhee (NEC Research Lab), Ryan Riley (Qatar University), Kevin Roundy (Symantec), Weidong Shi (University of Houston), Bhavani Thuraisingham (UT Dallas), Shouhuai Xu (UT San Antonio), Heng Yin (Syracuse), Mingwei Zhang (Intel)
Graduate Advisors (2)	Dongyan Xu (Purdue), and Xiangyu Zhang (Purdue)
Thesis Advisor (9)	Erick Bauman, Swarup Chandra, Yangchun Fu, Yufei Gu, Raul Quinonez, Huibo Wang, Wubing Wang, Junyuan Zeng (FireEye), Chaoshun Zuo
Academic Visitor (2)	Alireza Saberi, Xiaochao Zi