

# Omar Alrawi

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RESEARCH INTERESTS	Using system and network events to evaluate and improve the security of home-based smart devices, detect and measure threats against smart devices, and apply data science tools to automate and scale these methods.
EDUCATION	<p><b>Ph.D. in Electrical and Computer Engineering</b> Enrolled Georgia Tech Atlanta, GA</p> <p><b>Master of Arts in Linguistics (CERIAS)</b> May 2009 Purdue University West Lafayette, IN Thesis: <i>Ontological Semantics Spam Filters</i> Advisor: Dr. Victor Raskin</p> <p><b>Bachelor of Science in Computer Science and Mathematics</b> May 2007 Purdue University West Lafayette, IN</p>
HONORS & AWARDS	<p><b>Best Research Idea</b> 2019 Institute for Information Security &amp; Privacy Demo Day Award: \$5,000</p> <p><b>President Fellowship</b> 2016, 2018 The President Fellowship is a supplement funding for PhD students with exemplary levels of scholarship and innovation.</p> <p><b>Best Paper Award</b> 2014 Workshop on Information Security Applications (WISA)</p>
FORMER POSITIONS	<p><b>Data Scientist (part-time)</b> January 2017 to December 2017 Sophos Abingdon, United Kingdom</p> <p><b>Sr. Engineer</b> June 2013 to August 2016 Qatar Computing Research Institute Doha, Qatar</p> <p><b>Security Engineer</b> October 2011 to June 2013 Security Intelligence - iDefense - Verisign Inc. Reston, VA</p>

**Consultant**  
Booz Allen Hamilton

June 2009 to October 2011  
Annapolis Junction, Maryland

**Intern Engineer**  
Cisco Systems

May 2007 to August 2007  
San Jose, CA

PUBLICATIONS R. Duan, A. Bijlani, Y. Ji, **O. Alrawi**, Y. Xiong, M. Ike, B. Saltaformaggio, W. Lee. Automating Patching of Vulnerable Open-Source Software Versions in Application Binaries. To appear in *The Network and Distributed System Security Symposium (NDSS)*. 2019.

**Omar Alrawi**, Chaz Lever, Manos Antonakakis, Fabian Monrose. SoK: Security Evaluation of Home-Based IoT Deployments, To appear in *IEEE Security and Privacy (Oakland)*. 2019.

**Omar Alrawi**, Aziz Mohaisen. Chains of Distrust: Towards Understanding Certificates Used for Signing Malicious Applications. In *Workshop on Empirical Research Methods in Information Security co-located with WWW*. 2016.

Aziz Mohaisen, **Omar Alrawi**. Behavior-based Automated Malware Analysis and Classification. In *Elsevier Computers & Security*. 2015.

A Mohaisen, AG West, A Mankin, **O Alrawi**. Chatter: Classifying Malware Families Using System Event Ordering. In *IEEE Conference on Communications and Network Security (CNS)*. 2014.

Aziz Mohaisen, **Omar Alrawi**. AMAL: High-Fidelity, Behavior-based Automated Malware Analysis and Classification. In *Workshop on Information Security Applications (WISA)*. 2014.

Aziz Mohaisen, **Omar Alrawi**. AV-Meter: An Evaluation of Antivirus Scans and Labels. In *Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*. 2014.

Aziz Mohaisen, **Omar Alraw**, Andrew G. West, and Allison Mankin. Babble: Identifying Malware by Its Dialects. In *IEEE Conference on Communications and Network Security (CNS)*. 2013.

Aziz Mohaisen, **Omar Alrawi**, Matt Larson, and Danny McPherson. Towards A Methodical Evaluation of Antivirus Scans and Labels. In *Workshop on Information Security Applications (WISA)*. 2013.

Aziz Mohaisen, **Omar Alrawi**. Unveiling Zeus Automated Classification of Malware Samples. In *Workshop on Simplifying Complex Networks for Practitioners co-located with WWW*. 2013.

Patents

**Systems and methods for behavior-based automated malware analysis and classification**

Patent Number: US9769189B2

Granted: 2017-09-19