Dr. Yacin I. Nadji

Georgia Institute of Technology
Klaus Advanced Computing Building   my first name AT gatech DOT edu
Room 3115   http://yacin.nadji.us
266 Ferst Drive   Citizenship: U.S. Citizen
Atlanta, GA 30332   Research Scientist II

Education

Georgia Institute of Technology (GT)

- Doctor of Philosophy in Computer Science, 2015.
- Advisors: Dr. Manos Antonakakis and Dr. Wenke Lee

Illinois Institute of Technology (IIT)

- Bachelor of Science in Computer Science, with Honors, 2009.
- Advisor: Dr. Ophir Frieder

Publications

16. Rosa Romero-Gómez, **Yacin Nadji**, and Manos Antonakakis. Towards Designing Effective Visualizations for DNS-based Network Threat Analysis. In *Proceedings of the 14th International Symposium on Visualization for Cyber Security (VizSec)*, 2012

15. Yizheng Chen, **Yacin Nadji**, Athanasios Kountouras, Fabian Monrose, Roberto Perdisci, Manos Antonakakis, and Nikolaos Vasiloglou. Practical Attacks Against Graph-based Clustering. In *Proceedings of the 24th ACM Conference on Computer and Communications Security (CCS)*, 2017

14. Yizheng Chen, **Yacin Nadji**, Rosa Romero-Gómez, Manos Antonakakis, and David Dagon. Measuring Network Reputation in the Ad-Bidding Process. In *Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2017

13. Athanasios Kountouras, Panagiotis Kintis, Chaz Lever, Yizheng Chen, **Yacin Nadji**, David Dagon, Manos Antonakakis, and Rodney Joffe. Enabling Network Security Through Active DNS Datasets. *Research in Attacks, Intrusions, and Defenses (RAID)*, 2016

12. Panagiotis Kintis, **Yacin Nadji**, David Dagon, Michael Farrell, and Manos Antonakakis. Understanding the Privacy Implications of ECS. In *Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2016

11. Yizheng Chen, Panagiotis Kintis, Manos Antonakakis, **Yacin Nadji**, David Dagon, Wenke Lee, and Michael Farrell. Financial Lower Bounds of Online Advertising Abuse. In *Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2016

10. Charles Lever, Robert Walls, **Yacin Nadji**, David Dagon, Patrick McDaniel, and Manos Antonakakis. Domain-Z: 28 Registrations Later—Measuring the Exploitation of Residual Trust in Domains. In *IEEE Symposium on Security and Privacy (Oakland)*, 2016

9. Yizheng Chen, Manos Antonakakis, Roberto Perdisci, **Yacin Nadji**, David Dagon, and Wenke Lee. DNS Noise: Measuring the Pervasiveness of Disposable Domains in Modern DNS Traffic. In *International Conference on Dependable Systems and Networks*, 2014

8. Jessica Annette Pater, **Yacin Nadji**, Elizabeth D Mynatt, and Amy S Bruckman. Just awful enough: the functional dysfunction of the something awful forums. In *Proceedings of the 32nd annual ACM conference on Human factors in computing systems*, pages 2407–2410. ACM, 2014

7. **Yacin Nadji**, Manos Antonakakis, Roberto Perdisci, David Dagon, and Wenke Lee. Beheading Hydras: Performing Effective Botnet Takedowns. In *Proceedings of the 20th ACM Conference on Computer and Communications Security (CCS)*, 2013

6. **Yacin Nadji**, Manos Antonakakis, Roberto Perdisci, and Wenke Lee. Connected Colors: Unveiling the Structure of Criminal Networks. *Research in Attacks, Intrusions, and Defenses (RAID)*, 2013

5. Wei Zhuo and **Yacin Nadji**. MalwareVis: Entity-based Visualization of Malware Network Traces. In *Proceedings of the Ninth International Symposium on Visualization for Cyber Security (VizSec)*, 2012

4. Manos Antonakakis, Roberto Perdisci, **Yacin Nadji**, Nikolaos Vasiloglou, Saeed Abu-Nimeh, Wenke Lee, and David Dagon. From Throw-Away Traffic to Bots: Detecting the Rise of DGA-Based Malware. In *Proceedings of 21st USENIX Security Symposium*, 2012

3. **Yacin Nadji**, Manos Antonakakis, Roberto Perdisci, and Wenke Lee. Understanding the Prevalence and Use of Alternative Plans in Malware with Network Games. In *Proceedings of the 27th Annual Computer Security Applications Conference (ACSAC)*, 2011

2. **Yacin Nadji**, Jonathon Giffin, and Patrick Traynor. Automated Remote Repair for Mobile Malware. In *Proceedings of the 27th Annual Computer Security Applications Conference (ACSAC)*, 2011

1. **Yacin Nadji**, Prateek Saxena, and Dawn Song. Document Structure Integrity: A Robust Basis for Cross-site Scripting Defense. In *Proceedings of the Network and Distributed System Security Symposium (NDSS)*, 2009

Technical Skills

Programming Languages: Python, Clojure, R, Scala, Java

Software and Techniques: Machine Learning, Hadoop (Spark, MapReduce), Network Security, Network Analysis, *nix, LATEX

Code: https://github.com/ynadji

Languages: English (Native), Français (Intermediate), 中文 (Beginner)

Talks

5. "IoT: Cybersecurity and Privacy Issues in a Hyper-Connected World." *King & Spalding Cybersecurity & Privacy Summit.* 04/2017 Atlanta, GA, USA

4. "Passive DNS-based Device Identification." *NANOG 67.* 06/2016 Chicago, IL, USA

3. "Does Malware Dream of Electric Domains? Detecting "Sleepy" Targeted Attack Infrastructure." *Army Cyber Institute, M3AAWG 32nd General Meeting, Meetup.* 2016

2. "Beheading Hydras: Performing Effective Botnet Takedowns." *M3AAWG 29th General Meeting.* 10/2013 Montreal, Canada

1. "Connected Colors: Unveiling the Structure of Criminal Networks." *M3AAWG 26th General Meeting.* 10/2012 Baltimore, MD, USA

Teaching Experience

Instructor, ECE 8813/CS 8803: Advanced Computer Security, Georgia Tech, Fall 2016.

Guest Lectures, ECE 3600: Computer Networks, Georgia Tech, Spring 2014. "Reliable Data Transfer & TCP."

Guest Lecture, CS 4235: Introduction to Information Security, Georgia Tech, Fall 2012. "The Underground Economy."

Guest Lecture, CS 6035: Introduction to Information Security, Georgia Tech, Fall 2011. "Understanding the Prevalence and Use of Alternative Plans in Malware with Network Games."

Guest Lecture, CS 4235: Introduction to Information Security, Georgia Tech, Spring 2011. "Stalking the Wily Hacker."

Teaching Assistant, CS 100: Intro to the Profession (follows Structure and Interpretation of Computer Programs), IIT, Fall 2008. Responsible for running lab and recitation sections, grading labs, and assisting students during office hours.

Service

Reviewer

IEEE Transactions on Information Forensics & Security

IEEE Transactions on Dependable and Secure Computing

Engineering Security Software and Systems (ESSoS) 2015

USENIX Symposium on Networked Systems Design and Implementation (NSDI) 2013

USENIX Security Symposium 2011

Network & Distributed System Security Symposium (NDSS) 2010

Honors and Awards

President's Fellowship, GT, 2009-2014.

AOF Fellowship (declined), Wisconsin, 2009.

Undergraduate Summer Research Award, IIT, 2008.

Computer Science Department Teaching Assistant of the Year, IIT, 2007.

References

Dr. Manos Antonakakis
Professor/Advisor
Georgia Institute of Technology

Dr. Wenke Lee
Professor/Advisor
Georgia Institute of Technology

Dr. Gunter Ollmann
CTO, Security (Cloud and Enterprise)
Microsoft, Inc.

Brian Foster
Senior Vice President
Information Services
Neustar, Inc.