

# Nick Nikiforakis

## Curriculum Vitae

Department of Computer Science  
Stony Brook University  
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🌐 [www.securitee.org](http://www.securitee.org)

### Research Interests

Web Security and Privacy, Software Security, DNS, Intrusion Detection, and Cybercrime

### Employment

- Jan 2020 – Present **Associate Professor**, *Department of Computer Science*, Stony Brook University.
- Aug 2014 – December 2019 **Assistant Professor**, *Department of Computer Science*, Stony Brook University.
- 2013–2014 **Postdoctoral Researcher**, *Department of Computer Science*, KU Leuven, Belgium.
- Jun - Sep 2012 **Research Visitor**, *Department of Computer Science*, University of California, Santa Barbara.

### Education

- 2009–2013 **PhD in Computer Science**,  
*Computer Science Department*, KU Leuven, Belgium.  
thesis *Towards a Secure Web: Critical Vulnerabilities and Client-Side Countermeasures*  
supervisors Prof. Wouter Joosen and Prof. Frank Piessens
- 2007–2009 **MSc in Parallel and Distributed Systems**,  
*Computer Science Department*, University of Crete, Greece.  
thesis *Parasitic Storage: Free and globally accessible gigabytes*  
supervisor Professor Evangelos Markatos
- 2003–2007 **BSc in Computer Science**,  
*Computer Science Department*, University of Crete, Greece.  
thesis *Handling real-time network data generated by network-monitoring applications*  
supervisor Professor Evangelos Markatos

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## Teaching Experience

- Fall 2022 Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Spring 2022 Instructor, CSE 361: Web Security, Stony Brook University
- Fall 2021 Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Spring 2021 Instructor, CSE 361: Web Security, Stony Brook University
- Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Fall 2020 Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Spring 2019 Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Fall 2019 Instructor, CSE 331: Computer Security Fundamentals, Stony Brook University
- Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Spring 2019 Instructor, CSE 509: System Security, Stony Brook University
- Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Fall 2018 Instructor, CSE 331: Computer Security Fundamentals, Stony Brook University
- Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Spring 2018 Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Fall 2017 Instructor, CSE 361: Web Security, Stony Brook University
- Fall 2016 Instructor, CSE 509: System Security, Stony Brook University
- Spring 2016 Instructor, CSE 659: Computer Security Seminar, Stony Brook University
- Fall 2015 Instructor, CSE 509: System Security, Stony Brook University
- Spring 2015 Instructor, CSE 508: Network Security, Stony Brook University
- Fall 2014 Instructor, CSE 509: System Security, Stony Brook University
- Fall 2013 Teaching Assistant, Secure Software for Athens 2013, KU Leuven
- Spring 2013 Teaching Assistant, Capita Selecta Secure Software, KU Leuven
- Fall 2011 Teaching Assistant, Capita Selecta Secure Software, KU Leuven
- Fall 2010 Teaching Assistant, Capita Selecta Secure Software, KU Leuven
- Fall 2008 Teaching Assistant, CS557 - Secure Systems, University of Crete
- Spring 2008 Teaching Assistant, CS455 - Lab for Network Attacks and Defenses, University of Crete.
- Fall 2007 Teaching Assistant, CS345 - Operating Systems, University of Crete

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## Work Experience

- 2014 – present – As an ~~Assistant~~ Associate Professor at Stony Brook University, I teach security-related courses, advise PhD and MSc students, write and review academic and industry grants, write and review papers for the top conferences and journals of my field, and participate in administrative activities, such as the reviewing of PhD and MSc admissions.

- 2013 – 2014 As a Postdoctoral Researcher at KU Leuven, I continued the empirical exploratory security and privacy research, while coaching young graduate students.
- 2009 – 2013 During my PhD at KU Leuven, I had the opportunity to successfully coach the theses of four Master students, teach the “Hands-on Hacking” module of the Capita Selecta Secure Software course, and do research on many areas, relevant to security, such as software security, web security, and privacy.
- Jun – Sep 2012 I visited Prof. Christopher Kruegel and Prof. Giovanni Vigna for 3 months at the University of California, Santa Barbara and worked in the Computer Security Lab on web-based device fingerprinting.
- 2006 – 2009 I worked as a Research Assistant at the Distributed Computing Systems Lab of FORTH-ICS in Heraklion. I participated in three EU-funded programs: LOBSTER (Large-scale Monitoring of Broadband Internet Infrastructures), MOMENT (Monitoring and Measurement in the Next Generation Technologies), and NoAH (Network of Affined Honey pots).

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## Research Funding

- *Collaborative Research: SaTC: CORE: Medium: App-driven Web Browsing: Novel Risks, Vulnerabilities, and Defenses*  
(2022.10 – 2026.09)
  - PI: Jason Polakis, co-PIs: Nick Nikiforakis, Manuel Egele
  - Sponsor: National Science Foundation
  - Total Amount: \$1,199,076.00, SBU Share: \$349,079
- *Collaborative Research: SaTC: CORE: Medium: Defending Against Social Engineering Attacks with In-Browser AI*  
(2021.10 – 2025.09)
  - PI: Roberto Perdisci, co-PIs: Nick Nikiforakis, Phani Vadrevu
  - Sponsor: National Science Foundation
  - Total Amount: \$1,198,958.00, SBU Share: \$399,767
- *Tools and Techniques to Improve the Granularity and Usability of Web Application Debloating*  
(2021.03 – 2023.02)
  - PI: Adam Doupé, co-PIs: Manuel Egele, Alexandros Kapravelos, Nick Nikiforakis
  - Sponsor: Office of Naval Research
  - Total Amount: \$1,599,983, SBU Share: \$389,312
- *Young Investigator Award: WebForecast: Analysis and Prediction of Web Application Updates*  
(2020.07 – 2023.06)
  - PI: Nick Nikiforakis
  - Sponsor: Office of Naval Research
  - Amount: \$512,560.00

- *CAREER: Tools and Techniques for Preserving Integrity on the Web* (2020.10 – 2025.09)
  - PI: Nick Nikiforakis
  - Sponsor: National Science Foundation
  - Amount: \$551,090
- *BreakHound: Automated and Scalable Detection of Website Breakage* (2020.01 – 2021.01)
  - PI: Nick Nikiforakis
  - Sponsor: Mozilla
  - Amount: \$40,000
- *ICBots: Tools and Techniques for Detecting Web Bots* (2019.03 – 2020.02)
  - PI: Nick Nikiforakis
  - Sponsor: Amazon
  - Amount: \$64,000
- *SaTC: CORE: Small: Understanding, Measuring, and Defending against Malicious Web Crawlers* (2018.09 – 2023.08)
  - PI: Nick Nikiforakis
  - Sponsor: National Science Foundation
  - Amount: \$499,567
- *EAGER: ISN: Detecting and Disrupting Illicit Supply Networks via Traffic Distribution Systems* (2018.09 – 2022.08)
  - PI: Nick Nikiforakis co-PIs: Nicolas Christin, Jonathan Caulkins
  - Sponsor: National Science Foundation
  - Total Amount: \$359,908, Stony Brook Share: \$185,033
- *XS-Shredder: A Cross-Layer Framework for Removing Code Bloat in Web Applications* (2017.07 – 2020.06)
  - PI: Adam Doupé, co-PIs: Manuel Egele, Alexandros Kapravelos, Nick Nikiforakis
  - Sponsor: Office of Naval Research
  - Total Amount: \$1,230,547, SBU Share: \$289,691
- *EAGER: Measuring the Stability of Web Links* (2017.04 – 2017.09)
  - PI: Nick Nikiforakis, co-PI: Michael Ferdman
  - Sponsor: National Science Foundation
  - Amount: \$89,200
- *PrivacyMeter: Real-time Privacy Quantification for the web* (2016.09 – 2017.08)
  - PI: Nick Nikiforakis
  - Sponsor: Data Transparency Lab
  - Amount: \$50,000
- *TWC: Small: Combating Environment-aware Malware* (2016.09 – 2020.08)
  - PI: Michail Polychronakis, co-PI: Nick Nikiforakis

- Sponsor: National Science Foundation
- Amount: \$498,036
- *TWC: Small: Emerging Attacks Against the Mobile Web and Novel Proxy Technologies for Their Containment* (2016.09 – 2020.08)
  - PI: Nick Nikiforakis, co-PI: Nima Honarmand
  - Sponsor: National Science Foundation
  - Amount: \$499,481
- *Early Detection of User-impersonating Attackers using Multilayer Tripwires* (2016.03 – 2020.02)
  - PI: Nick Nikiforakis, co-PI: Erez Zadok
  - Sponsor: Office of Naval Research
  - Amount: \$586,215
- *TWC: Small: Cross-application and Cross-platform Tracking of Web Users: Techniques and Countermeasures* (2015.09 – 2019.08)
  - PI: Nick Nikiforakis, co-PI: Long Lu
  - Sponsor: National Science Foundation
  - Amount: \$499,204
- *Understanding and defending against technical support scams* (2015.07 – 2015.12)
  - PI: Nick Nikiforakis
  - Sponsor: Cyber Research Institute
  - Amount: \$67,000
- *Grant for teaching network security* (2015.02)
  - PI: Nick Nikiforakis
  - Sponsor: Amazon Web Services
  - Amount: \$8,600 (cloud credits)
- *Grant for conducting cloud experiments* (2014.02)
  - PI: Nick Nikiforakis
  - Sponsor: Linode
  - Amount: \$2,000 (cloud credits)

## Awards

- Most Creative Video Award, IEEE S&P 2021
- IEEE Senior Member, 2021
- Best Video Presentation, DIMVA 2020
- ONR Young Investigator Award 2020
- NSF CAREER 2020
- Distinguished Paper Award at NDSS 2017
- Graduate Teaching Award, Department of Computer Science, Stony Brook University, 2016
- Honorable Mention at PETS 2016
- Best Paper Award at ISC 2014

## Students and Postdoctoral Researchers

### Postdoctoral Researchers

- Pierre Laperdrix, 2018–2019

### PhD Students

- Babak Amin Azad, 2017–present
- Brian Kondracki, 2019–present
- Xigao Li, 2019–present
- Johnny So, 2020–present
- Christos Tsoukaladelis, 2021–present
- Vasileios Tsouvalas, 2022–present
- Oleksii Starov, 2014–2018
- Najmeh Miramirkhani, 2015–2019
- Timothy Barron, 2015–2020
- Meng Luo, 2015–2020

## Public Service

### Program Chair

- Program co-chair, Workshop on Active Defense and Deception (AD&D), 2022
- Program co-chair, Web Conference (WWW) 2020 – Security, Privacy, and Trust Track
- Program co-chair, Workshop on Measurements, Attacks, and Defenses for the Web (MADWeb), 2020
- Program co-chair, Workshop on Measurements, Attacks, and Defenses for the Web (MADWeb), 2019
- Program co-chair, Symposium on Electronic Crime Research (eCrime), 2018
- Program co-chair, Symposium on Electronic Crime Research (eCrime), 2017
- Program chair, OWASP AppSec Europe – Research Track, 2015

### Associate Editor

- ACM Transactions of the Web, 2021 – present

### Poster Chair

- 26th USENIX Security Symposium (USENIX Security), 2017

### Publicity Chair

- 20th International Symposium on Research in Attacks, Intrusions and Defenses (RAID), 2017

### Sponsorship Chair

- 26th ACM Conference on Computer and Communications Security (CCS), 2019

### Member of Program Committees

- International World Wide Web Conference (WWW): 2023
- 8th IEEE European Symposium on Security and Privacy (EuroS&P 2023)
- 44th IEEE Symposium on Security and Privacy (IEEE S&P 2023)
- Annual Computer Security Applications Conference (ACSAC 2022)
- International World Wide Web Conference (WWW): 2022
- 19th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2022)
- Security for the Web Workshop (SecWeb 2022)
- 29th ACM Conference on Computer and Communications Security (CCS 2022)
- 31st USENIX Security Symposium (USENIX Security 2022)
- 7th IEEE European Symposium on Security and Privacy (EuroS&P 2022)
- 28th ACM Conference on Computer and Communications Security (CCS 2021)
- Security for the Web Workshop (SecWeb 2021)
- 3rd Workshop on Attackers and Cyber-Crime Operations (WACCO 2021)
- 42nd IEEE Symposium on Security and Privacy (IEEE S&P 2021)
- 30th USENIX Security Symposium (USENIX Security 2021)
- 6th IEEE European Symposium on Security and Privacy (EuroS&P 2021)
- 26th European Symposium on Research in Computer Security (ESORICS 2021)
- 27th ACM Conference on Computer and Communications Security (CCS 2020)
- 5th IEEE European Symposium on Security and Privacy (EuroS&P 2020)
- 41st IEEE Symposium on Security and Privacy (IEEE S&P 2020)
- 27th Network and Distributed System Security Symposium (NDSS 2020)
- 17th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2020)
- 22nd International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2019)
- 22nd Information Security Conference (ISC 2019)
- 16th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2019)
- 26th Network and Distributed System Security Symposium (NDSS 2019)
- 40th IEEE Symposium on Security and Privacy (IEEE S&P 2019)
- Workshop on Technology and Consumer Protection (ConPro 2019)
- 27th USENIX Security Symposium (USENIX Security 2018)
- 10th International Symposium on Engineering Secure Software and Systems (ESSoS 2018)
- 15th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2018)
- 12th ACM Asia Conference on Information, Computer and Communications Security (AsiaCCS 2018)
- 25th Network and Distributed System Security Symposium (NDSS 2018)
- 26th International World Wide Web Conference (WWW 2018)
- 8th ACM Cloud Computing Security Workshop (CCSW 2017)
- 33rd Annual Computer Security Applications Conference (ACSAC 2017)
- 24th ACM Conference on Computer and Communications Security (CCS 2017)
- 2nd European Workshop on Usable Security (EuroUSEC 2017)

- 26th USENIX Security Symposium (USENIX Security 2017)
- 14th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2017)
- 7th ACM Conference on Data and Application Security and Privacy (CODASPY 2017)
- 25th International World Wide Web Conference (WWW 2017)
- 2nd IEEE European Symposium on Security and Privacy (EuroS&P 2017)
- 16th ACM Symposium on Applied Computing (SAC 2017)
- 32nd Annual Computer Security Applications Conference (ACSAC 2016)
- 23rd ACM Conference on Computer and Communications Security (CCS 2016)
- 25th USENIX Security Symposium (USENIX Security 2016)
- 11th Symposium on Electronic Crime Research (eCrime 2016)
- 13th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2016)
- 6th ACM Conference on Data and Application Security and Privacy (CODASPY 2016)
- 8th International Symposium on Engineering Secure Software and Systems (ESSoS 2016)
- 22nd ACM Conference on Computer and Communications Security (CCS 2015)
- 24th USENIX Security Symposium (USENIX Security 2015)
- 8th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec 2015)
- 12th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2015)
- 24th International World Wide Web Conference (WWW 2015)
- 8th European Workshop on System Security (EuroSec 2015)
- 7th International Symposium on Engineering Secure Software and Systems (ESSoS 2015)
- 7th European Workshop on System Security (EuroSec 2014)
- 5th International Conference on Emerging Ubiquitous Systems and Pervasive Member of Networks (EUSPN 2014)
- 12th IEEE International Conference on Embedded and Ubiquitous Computing (EUC 2014)
- 7th IEEE Workshop on Network Measurements (IEEE WNM 2013)
- 4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN 2013)
- OWASP AppSec Europe 2013 - Research Track (AppSec 2013)
- 6th European Workshop on System Security (EuroSec 2013)
- 14th IFIP Conference on Communications and Multimedia Security (CMS 2013)
- 5th European Workshop on System Security (EuroSec 2012)
- 13th IFIP Conference on Communications and Multimedia Security (CMS 2012)

## Invited Talks

- August 2022 SANS Blockchain Security Summit — Too Good to Be True: Exploring the Ecosystem of Cryptocurrency Giveaway Scams
- June 2022 OWASP AppSecEU — Catching Transparent Phish: Understanding and Detecting MITM Phishing Kits
- June 2022 Internet2 — Mitigating MITM Phishing Toolkit Attacks that Bypass MFA



- June 2022 CISPA, Distinguished Lecture Series — Small and different: Security and Privacy Risks of Mobile Browsers
- Mar 2022 Ohio State University, Cybersecurity Lecture Series — Small and different: Security and Privacy Risks of Mobile Browsers
- Feb 2022 UK-SPS, Cyber Security and Privacy Lecture Series — Small and different: Security and Privacy Risks of Mobile Browsers
- Nov 2021 John Jay College of Criminal Justice, Computer Science Colloquium — Small and different: Security and Privacy Risks of Mobile Browsers
- Sep 2021 OWASP 20th Anniversary Conference – Good Bot, Bad Bot: Characterizing Automated Browsing Activity
- Sep 2021 OWASP 20th Anniversary Conference – Everything You Always Wanted to Know About Fingerprinting Browser Extensions, But Were Afraid to Ask
- Sep 2021 APNIC 52 – Good Bot, Bad Bot: Characterizing Automated Browsing Activity
- May 2021 Amazon Web Services – Good Bot, Bad Bot: Characterizing Automated Browsing Activity
- Feb 2021 Brave Faculty Summit – Fingerprinting users through their browser extensions
- May 2018 ConPro 2018 – Everyone Loves Domain Names (Including Cyber Criminals)
- May 2018 FTC workshop, Stepping up to Stop Indian Call Center Fraud – Keynote: Why Hack When You Can Scam?
- May 2018 Dropbox – Security and Privacy Issues of Modern Web Browsers
- Sep 2017 Georgia Tech, Cybersecurity Lecture Series – Security and Privacy Issues of Modern Web Browsers
- May 2017 Palo Alto Networks – Discovering Scammers and Distinguishing Sandboxes
- Mar 2017 CyLab Distinguished Seminar – Dial One for Scam - A Large-Scale Analysis of Technical Support Scams
- Jan 2017 Federal Trade Commission, Washington DC – Dial One for Scam - A Large-Scale Analysis of Technical Support Scams
- Feb 2016 Messaging, Malware and Mobile Anti-Abuse Working Group – No Honor Among Thieves: A Large-Scale Analysis of Malicious Web Shells
- May 2015 International World Wide Web Conference, W3C Track: Web Security Architecture – The Pretense of Security
- Oct 2014 Princeton Web Privacy and Transparency Conference – Web-based Device Fingerprinting
- Feb 2014 SecAppDev – Browser fingerprinting (how did we get here?), Leuven, Belgium
- Dec 2013 Microsoft Research – Everything you always wanted to know about web-based device fingerprinting (but were afraid to ask), Redmond, Washington, US

- Nov 2013 November OWASP BeNeLux – Everything you always wanted to know about web-based device 2013 fingerprinting (but were afraid to ask), Amsterdam, The Netherlands
- Jul 2013 SysSec Workshop – Cookieless Monster: Exploring the Ecosystem of Web-based Device Fingerprinting, Bochum, Germany
- Feb 2013 SecAppDev – Sandboxing JavaScript, Leuven, Belgium
- Oct 2012 Web Application Security Seminar Dagstuhl – You are what you include: Large-scale analysis of remote JavaScript inclusions, Bochum, Germany
- Jul 2011 OWASP Netherlands Chapter – Abusing locality in Shared Web Hosting, Amsterdam, The Netherlands
- Dec 2010 OWASP BeNeLux – On the Privacy of File Sharing Services, Eindhoven, The Netherlands

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## Selected Media Coverage

- Dec 2021 Gizmodo – Hackers Are Getting Better and Better at Defeating Your 2FA Security – <https://gizmodo.com/hackers-are-getting-better-and-better-at-defeating-your-1848278177>
- Dec 2021 The Record – More than 1,200 phishing toolkits capable of intercepting 2FA detected in the wild – <https://therecord.media/more-than-1200-phishing-toolkits-capable-of-intercepting-2fa-detected-in-the-wild/>
- Nov 2021 The Hacker News – Researchers Demonstrate New Way to Detect MitM Phishing Kits in the Wild – <https://thehackernews.com/2021/11/researchers-demonstrate-new-way-to.html>
- Oct 2021 The Washington Post – Read that link carefully: Scammers scoop up misspelled cryptocurrency URLs to rob your wallet – <https://www.washingtonpost.com/technology/2021/10/08/cryptocurrency-scam-websites/>
- Nov 2018 The New York Times – That Virus Alert on Your Computer? Scammers in India May Be Behind It – <https://www.nytimes.com/2018/11/28/technology/scams-india-call-center-raids.html>
- Oct 2017 ZDNet – Are you sure about that link? Crooks are using this trick to fool you into visiting bad websites – <http://zd.net/2AcniKq>
- Mar 2017 WIRED – Listen to “Tech Support” Scam Calls That Bilk Victims Out of Millions – <https://www.wired.com/2017/03/listen-tech-support-scam-calls-bilk-millions-victims/>
- Jun 2016 Washington Times – Half the ads on livestreaming sites pose security risks to viewers: Report – <http://www.washingtontimes.com/news/2016/jun/15/half-ads-livestreaming-sites-pose-security-risks-v/>

- Feb 2016 BBC – Illegal football streams are 'dangerous', study says – <http://www.bbc.com/news/technology-35434765>
- Dec 2015 TechRepublic – DDoS mitigation may leave your site vulnerable – <http://www.techrepublic.com/article/ddos-mitigation-may-leave-your-site-even-more-vulnerable/>
- Oct 2015 The Register – DDoS defences spiked by CloudPiercer tool - paper – [http://www.theregister.co.uk/2015/10/08/cloudpiercer\\_tool\\_lifts\\_ddos\\_protection\\_cloak\\_from\\_70\\_percent\\_of\\_sites/](http://www.theregister.co.uk/2015/10/08/cloudpiercer_tool_lifts_ddos_protection_cloak_from_70_percent_of_sites/)
- Oct 2015 SC Magazine – CloudPiercer tool discloses DDoS defence providers – <http://www.scmagazineuk.com/cloudpiercer-tool-discloses-ddos-defence-providers/article/444000/>
- Sep 2015 KrebsOnSecurity – With Stolen Cards, Fraudsters Shop to Drop – <http://krebsonsecurity.com/2015/09/with-stolen-cards-fraudsters-shop-to-drop/>
- Sep 2015 SlashDot – Study: \$1.8 Billion In Reshipping Fraud With Stolen Cards Each Year – <http://news.slashdot.org/story/15/09/28/2157238/study-18-billion-in-reshipping-fraud-with-stolen-cards-each-year>
- Feb 2015 World Trademark Review – Groundbreaking typosquatting research reveals true scale of the problem – <http://www.worldtrademarkreview.com/Blog/Detail.aspx?g=59f40171-11fb-4806-a837-2c0b29564681>
- Jan 2015 HelpNet Security – Typosquatting abuse of 500 most popular websites analyzed – <http://www.net-security.org/secworld.php?id=17833>
- Dec 2014 ArsTechnica – Sites certified as secure often more vulnerable to hacking, scientists find – <http://www.arstechnica.com/security/2014/12/sites-certified-as-secure-often-morevulnerable-to-hacking-scientists-find/>

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## Magazine Articles

- Jan 2015 IEEE IT Pro – Protected Web Components: Hiding Sensitive Information in the Shadows
- Aug 2014 IEEE Spectrum – Browse at your own risk
- Dec 2013 IEEE Security & Privacy – On the Workings and Current Practices of Web-based Device Fingerprinting
- Mar 2011 Hackin9 – Direct Object Reference or, How a Toddler Can Hack Your Web Application

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## Publications

- [1] Kostas Solomos, Panagiotis Ilia, Nick Nikiforakis, and Jason Polakis. Escaping the Confines of Time: Continuous Browser Extension Fingerprinting Through Ephemeral Modifications. In *Proceedings of ACM Conference on Computer and Communications Security (CCS)*, 2022.
- [2] Brian Kondracki, Johnny So, and Nick Nikiforakis. Uninvited Guests: Analyzing the Identity and Behavior of Certificate Transparency Bots. In *Proceedings of USENIX Security Symposium (USENIX Security)*, 2022.
- [3] Kostas Solomos, Panagiotis Ilia, Soroush Karami, Nick Nikiforakis, and Jason Polakis. The Dangers of Human Touch: Fingerprinting Browser Extensions through User Actions. In *Proceedings of USENIX Security Symposium (USENIX Security)*, 2022.
- [4] Xingzhi Guo, Brian Kondracki, Nick Nikiforakis, and Steven Skiena. Verba Volant, Scripta Volant: Understanding Post-publication Title Changes in News Outlets. In *Proceedings of the 31st Web Conference (WWW)*, 2022.
- [5] Brian Kondracki, Babak Amin Azad, Najmeh Miramirkhani, and Nick Nikiforakis. The Droid is in the Details: Environment-aware Evasion of Android Sandboxes. In *Proceedings of the 29th Network and Distributed System Security Symposium (NDSS)*, 2022.
- [6] Johnny So, Najmeh Miramirkhani, Michael Ferdman, and Nick Nikiforakis. Domains Do Change Their Spots: Quantifying Potential Abuse of Residual Trust . In *Proceedings of the 43rd IEEE Symposium on Security and Privacy (IEEE S&P)*, 2022.
- [7] Brian Kondracki, Babak Amin Azad, Oleksii Starov, and Nick Nikiforakis. Catching Transparent Phish: Analyzing and Detecting MITM Phishing Toolkits. In *Proceedings of ACM Conference on Computer and Communications Security (CCS)*, 2021.
- [8] Xigao Li, Babak Amin Azad, Amir Rahmati, and Nick Nikiforakis. Good Bot, Bad Bot: Characterizing Automated Browsing Activity. In *Proceedings of the 42nd IEEE Symposium on Security and Privacy (IEEE S&P)*, 2021.
- [9] Timothy Barron, Johnny So, and Nick Nikiforakis. Click This, Not That: Extending Web Authentication with Deception. In *Proceedings of the 16th ACM ASIA Conference on Computer and Communications Security (ASIACCS)*, 2021.
- [10] Janos Szurdi, Meng Luo, Brian Kondracki, Nick Nikiforakis, and Nicolas Christin. Where are you taking me? Understanding Abusive Traffic Distribution Systems. In *Proceedings of the 30th Web Conference (WWW)*, 2021.
- [11] Beliz Kaleli, Brian Kondracki, Manuel Egele, Nick Nikiforakis, and Gianluca Stringhini. To Err.Is Human: Characterizing the Threat of Unintended URLs in Social Media. In *Proceedings of the 28th Network and Distributed System Security Symposium (NDSS)*, 2021.
- [12] Pierre Laperdrix, Oleksii Starov, Quan Chen, Alexandros Kapravelos, and Nick Nikiforakis. Fingerprinting in Style: Detecting Browser Extensions via Injected Style Sheets. In *Proceedings of the USENIX Security Symposium (USENIX Security)*, 2021.

- [13] Nikolaos Pantelaios, Nick Nikiforakis, and Alexandros Kapravelos. You’ve Changed: Detecting Malicious Browser Extensions through their Update Deltas. In *Proceedings of ACM Conference on Computer and Communications Security (CCS)*, 2020.
- [14] Babak Amin Azad, Oleksii Starov, Pierre Laperdrix, and Nick Nikiforakis. Web Runner 2049: Evaluating Third-Party Anti-bot Services. In *Proceedings of the 17th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2020.
- [15] Babak Amin Azad, Oleksii Starov, Pierre Laperdrix, and Nick Nikiforakis. Taming The Shape Shifter: Detecting Anti-fingerprinting Browsers. In *Proceedings of the 17th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2020.
- [16] Javad Nejati, Meng Luo, Nick Nikiforakis, and Aruna Balasubramanian. Need for Mobile Speed: A Historical Study of Mobile Web Performance. In *Proceedings of the 4th Network Traffic Measurement and Analysis Conference (TMA)*, 2020.
- [17] Brian Kondracki, Assel Aliyeva, Manuel Egele, Jason Polakis, and Nick Nikiforakis. Meddling Middlemen: Empirical Analysis of the Risks of Data-Saving Mobile Browsers. In *Proceedings of the 41st IEEE Symposium on Security and Privacy (IEEE S&P)*, 2020.
- [18] Sebastian Roth, Timothy Barron, Stefano Calzavara, Nick Nikiforakis, and Ben Stock. Complex Security Policy? A Longitudinal Analysis of Deployed Content Security Policies. In *Proceedings of the 27th Network and Distributed System Security Symposium (NDSS)*, 2020.
- [19] Timothy Barron, Najmeh Miramirkhani, and Nick Nikiforakis. Now You See It, Now You Don’t: A Large-scale Analysis of Early Domain Deletions. In *Proceedings of the 22nd International Symposium on Research in Attacks, Intrusions and Defenses (RAID)*, 2019.
- [20] Babak Amin Azad, Pierre Laperdrix, and Nick Nikiforakis. Less is More: Quantifying the Security Benefits of Debloating Web Applications. In *Proceedings of the 28th USENIX Security Symposium (USENIX Security)*, 2019.
- [21] Erik Trickel, Oleksii Starov, Alexandros Kapravelos, Nick Nikiforakis, and Adam Doupé. Everyone is Different: Client-side Diversification for Defending Against Extension Fingerprinting. In *Proceedings of the 28th USENIX Security Symposium (USENIX Security)*, 2019.
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