

Gianluca Stringhini

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🌐 <https://seclab.bu.edu/people/gianluca>

*Assistant Professor in the
Department of Electrical and Computer Engineering
at Boston University*

Positions

- 9/2018- Present **Assistant Professor**, *Boston University*, Boston, MA.
Department of Electrical and Computer Engineering
- 10/2017-8/2018 **Senior Lecturer (Associate Professor)**, *University College London*, London, United Kingdom.
Joint appointment in the Departments of Computer Science and Security and Crime Science
- 9/2014-9/2017 **Lecturer (Assistant Professor)**, *University College London*, London, United Kingdom.
Joint appointment in the Departments of Computer Science and Security and Crime Science
- 6/2016-9/2016 **Visiting Researcher**, *Telefonica Investigacion y Desarrollo*, Barcelona, Spain.

Education

- 2009-2014 **PhD in Computer Science**, *University of California Santa Barbara*, Santa Barbara, CA.
Dissertation title: "Stepping Up the Cybersecurity Game: Protecting Online Services from Malicious Activity"
- 2014 **MSc in Computer Science**, *University of California Santa Barbara*, Santa Barbara, CA.
- 2006-2009 **Laurea Specialistica in Computer Engineering (MSc equivalent)**, *Università degli Studi di Genova*, Genova, Italy.
Thesis title: "A Distributed System for Intrusion Prevention"
- 2003-2006 **Laurea Triennale in Computer Engineering (BSc equivalent)**, *Università degli Studi di Genova*, Genova, Italy.
Thesis title: "Computer Security in a Linux System" (in Italian)

Funding

- 2018 **Facebook Secure the Internet Grant**, *Understanding the Use of Hijacked Facebook Accounts in the Wild*, (PI, \$92,000).
- 2018 **GCHQ Small Grant**, *Understanding the Benefits and Drawbacks of Capture the Flag (CTF) exercises in an organisational context*, (PI, £29,988).
- 2017 **EPSRC-Funded PETRAS Hub Grant**, *Botthings: Modelling The Potential Impact Of IoT Boosted Botnet Attacks*, (PI, £118,525).
- 2017 **EPSRC Standard Research**, *EP/P011896/1 — ACCEPT: Addressing Cybersecurity and Cybercrime via a co-Evolutionary aPproach to reducing human-relaTed risks*, (Co-I, £1,101,225).
- 2016 **EPSRC-funded BEAMS Future Leaders in Engineering and Physical Sciences**, *Measuring and countering malware delivery networks*, (PI, £29,054).

- 2016 **EPSRC Standard Research**, EP/N028112/1 — *DAPM: Detecting and Preventing Mass-Marketing Fraud (MMF)*, (Co-PI, £1,056,471 — UCL share £246,742).
- 2016 **GCHQ Small Grant**, *Developing a Malware Analysis Infrastructure at UCL* (PI, £14,244.84).
- 2015 **Google Research Award**, *Understanding the Use of Stolen Accounts by Cybercriminals* (PI, \$66,500).
- 2015 **Horizon 2020 MSCA Rise Scheme**, H2020-MSCA-RISE ENCASE — *Enhancing security And privacy in the Social web: a user centered approach for the protection of minors* (Co-I, €2,160,000 — UCL share €324,000).
- 2015 **EPSRC First Grant Scheme**, EP/N008448/1 — *Inferring the Purpose of Network Activities* (PI, £122,803).

Awards

- 2018 **Distinguished Paper Award**, *ACM SIGCOMM Internet Measurement Conference*.
Award for the paper “On the Origin of Memes by Means of Fringe Web Communities”
- 2018 **Secure the Internet Grant**, *Facebook Inc.*
- 2018 **Finalist**, *CSAW Europe Best Applied Research Award*.
Nomination for the paper “Tiresias: Predicting Security Events Through Deep Learning”
- 2018 **UCLU Student Choice Teaching Awards (Nominee)**, *University College London Union*.
- 2017 **Second Place**, *CSAW Europe Best Applied Research Award*.
Award for the paper “MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models”
- 2017 **Finalist**, *CSAW Europe Best Applied Research Award*.
Nomination for the paper “What Happens After You Are Pwnd: Understanding The Use of Leaked Webmail Credentials In The Wild”
- 2017 **Finalist**, *CSAW North America Best Applied Research Award*.
Nomination for the paper “PayBreak: Defense against Cryptographic Ransomware”
- 2017 **Best Paper Nominee**, *International Conference on Web and Social Media (ICWSM)*.
Nomination for the paper “Kek, Cucks, and God Emperor Trump: A Measurement Study of 4chan's Politically Incorrect Forum and Its Effects on the Web”
- 2017 **Best Paper Award**, *APWG eCrime Symposium*.
Award for the paper “All Your Cards Are Belong To Us: Understanding Online Carding Forums”
- 2017 **UCLU Student Choice Teaching Awards (Nominee)**, *University College London Union*.
- 2016 **Future Leaders in Engineering and Physical Sciences**, *University College London*.
- 2016 **UCLU Student Choice Teaching Awards (Nominee)**, *University College London Union*.
- 2015 **Google Research Award**, *Google Inc.*
- 2014 **Outstanding Dissertation Award**, *Department of Computer Science, UC Santa Barbara*.
- 2012 **Symantec Research Labs Graduate Fellowship**, *Symantec Corp.*
- 2010 **Best Student Paper Award**, *Annual Computer Security Applications Conference (ACSAC)*.
Award for the paper “Detecting Spammers on Social Networks”
- 2009 **Summa cum laude honors**, *Università degli Studi di Genova*.

Publications

Total number of peer-reviewed publications: 76

Total number of citations (Google Scholar, April 2019): 2410

H-index (Google Scholar, April 2019): 23

NB: Unlike most fields, conferences are the primary publication venue in Computer Science. Conference papers are usually 10+ double column pages, subject to review by 3 or more expert referees, and published in archival proceedings. Tier-1 conferences (highlighted in bold in the list below) are highly competitive, typically have sub-20% acceptance rate, and are cited at a much higher frequency than journal publications.

Book Chapters

(B1) G. Stringhini. Fighting cybercrime once it switches from the online world to the real world. In *Routledge Handbook of Crime Science*, 2018.

Journal Papers

(J7) E. Mariconti, L. Onwuzurike, P. Andriotis, E. De Cristofaro, G. Ross, G. Stringhini. MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models (Extended Version). In *ACM Transactions on Privacy and Security (TOPS)*, 2019.

(J6) A. Bermudez-Villalva, J. Onalapo, M. Musolesi, G. Stringhini. Under and Over the Surface: A Comparison Of The Use Of Leaked Account Credentials in the Dark and Surface Web. In *Journal of Crime Science*, 2018.

(J5) A. Ioannou, J. Blackburn, G. Stringhini, E. De Cristofaro, N. Kourtellis, M. Sirivianos. From risk factors to detection and intervention: a practical proposal for future work on cyberbullying. In *Behaviour and Information Technology*, 2018.

(J4) P. Andriotis, M.A. Sasse, G. Stringhini. Studying Users' Adaptation to Android's Run-time Fine-grained Access Control System. In *Journal of Information Security and Applications*, 2018.

(J3) I. Becker, A. Hutchings, R. Abu-Salma, R. Anderson, N. Bohm, S. Murdoch, M.A. Sasse, G. Stringhini. International Comparison of Bank Fraud Reimbursement: Customer Perceptions and Contractual Terms. In *Journal of Cybersecurity*, 2018.

(J2) M. Egele, G. Stringhini, C. Kruegel, G. Vigna. Towards Detecting Compromised Accounts on Social Networks. In *IEEE Transactions on Dependable and Secure Computing (TDSC)*, 2016.

(J1) G. Stringhini, M. Egele, C. Kruegel, and G. Vigna. Poultry Markets: On the Underground Economy of Twitter Followers. In *ACM SIGCOMM Computer Communication Review - Volume 42 Issue 4*, 2012.

Conference Proceedings

(C48) C. Ife, Y. Shen, S. Murdoch, G. Stringhini. Waves of Malice: A Longitudinal Measurement of the Malicious File Delivery Ecosystem on the Web. In *ACM ASIA Conference on Computer and Communications Security (ASIACCS)*, 2019.

(C47) O. Mirzaei, G. Suarez-Tangil, J. de Fuentes, J. Tapiador, G. Stringhini. AndrEnsemble: Leveraging API Ensembles to Characterize Android Malware Families. In *ACM ASIA Conference on Computer and Communications Security (ASIACCS)*, 2019.

- (C46) B. Kaleli, E. Egele, G. Stringhini. On the Perils of Leaking Referrers in Online Collaboration Services. In *Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2019.
- (C45) O. Zungur, G. Stringhini, M. Egele. BORDERPATROL: Securing BYOD using fine-grained contextual information. In *IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)*, 2019.
- (C44) S. Zannettou, T. Caulfield, M. Sirivianos, G. Stringhini, J. Blackburn. Who Let The Trolls Out? Towards Understanding State-Sponsored Trolls. In *ACM Conference on Web Science (WebSci)*, 2019.
- (C43) B. Perez, M. Musolesi, G. Stringhini. Fatal Attraction: Identifying Mobile Devices Through Electromagnetic Emissions. In *ACM Conference on Security and Privacy in Mobile and Wireless Networks (WiSec)*, 2019.
- (C42) S. Matic, G. Tyson, G. Stringhini. Pythia: a Framework for Automatic Analysis of Web Hosting Environments. In *The Web Conference (WWW)*, 2019.
- (C41) D. Ibsiola, I. Castro, G. Stringhini, S. Uhlig, G. Tyson. Who Watches the Watchmen: Exploring Complaints on the Web. In *The Web Conference (WWW)*, 2019.
- (C40) J. Echeverria, N. Kourtellis, I. Leontiadis, E. De Cristofaro, G. Stringhini, S. Zhou. LOBO - Evaluation of Generalization Deficiencies in Twitter Bot Classifiers. In *Annual Computer Security Applications Conference (ACSAC)*, 2018.
- (C39) Y. Shen, E. Mariconti, P. Vervier, G. Stringhini. Tiresias: Predicting Security Events Through Deep Learning. In *ACM SIGSAC Conference on Computer and Communications Security (CCS)*, 2018.
- (C38) S. Zannettou, T. Caulfield, J. Blackburn, E. De Cristofaro, M. Sirivianos, G. Stringhini, G. Suarez-Tangil. On the Origins of Memes by Means of Fringe Web Communities. In *ACM SIGCOMM Internet Measurement Conference (IMC)*, 2018.
- (C37) L. Onwuzurike, M. Alameida, E. Mariconti, J. Blackburn, G. Stringhini, E. De Cristofaro. A Family of Droids: Analyzing Behavioral Model based Android Malware Detection via Static and Dynamic Analysis. In *Annual Conference on Privacy, Security and Trust (PST)*, 2018.
- (C36) A. Founta, C. Djouvas, D. Chatzakou, I. Leontiadis, J. Blackburn, G. Stringhini, A. Vakali, M. Sirivianos, N. Kourtellis. Large Scale Crowdsourcing and Characterization of Twitter Abusive Behavior. In *AAAI Conference on Web and Social Media (ICWSM)*, 2018.
- (C35) S. Zannettou, J. Blackburn, E. De Cristofaro, M. Sirivianos, G. Stringhini. Understanding Web Archiving Services and Their (Mis)Use on Social Media. In *AAAI Conference on Web and Social Media (ICWSM)*, 2018.
- (C34) D. Ibsiola, B. Steer, A. Garcia-Recuero, G. Stringhini, S. Uhlig, G. Tyson. Movie Pirates of the Caribbean: Exploring Illegal Streaming Cyberlockers. In *AAAI Conference on Web and Social Media (ICWSM)*, 2018.
- (C33) B. Perez, M. Musolesi, G. Stringhini. You are your Metadata: Identification and Obfuscation of Social Media Users using Metadata Information. In *AAAI Conference on Web and Social Media (ICWSM)*, 2018.

- (C32) G. Stringhini, Y. Shen, Y. Han, X. Zhang. Marmite: Spreading Malicious File Reputation Through Download Graphs. In *Proceedings of the Annual Computer Security Applications Conference (ACSAC)*, 2017.
- (C31) M. Weissbacher, E. Mariconti, G. Suarez-Tangil, W. Robertson, E. Kirda. Ex-Ray: Detection of History-Leaking Browser Extensions. In *Proceedings of the Annual Computer Security Applications Conference (ACSAC)*, 2017.
- (C30) S. Nilizadeh, F. Labrèche, A. Sadighian, A. Zand, J. Fernandez, G. Stringhini, G. Vigna, C. Kruegel. POISED: Spotting Twitter Spam Off the Beaten Paths. In *Proceedings of the ACM SIGSAC Conference on Computer and Communications Security (CCS)*, 2017.
- (C29) S. Zannettou, T. Caulfield, E. De Cristofaro, N. Kourtellis, I. Leontiadis, M. Sirivianos, G. Stringhini, and J. Blackburn. The Web Centipede: Understanding How Web Communities Influence Each Other Through the Lens of Mainstream and Alternative News Sources. In *Proceedings of the ACM SIGCOMM Internet Measurement Conference (IMC)*, 2017.
- (C28) D. Chatzakou, N. Kourtellis, J. Blackburn, E. De Cristofaro, G. Stringhini, and A. Vakali. Mean Birds: Detecting Aggression and Bullying on Twitter. In *Proceedings of the International ACM Conference on Web Science (WebSci)*, 2017.
- (C27) D. Chatzakou, N. Kourtellis, J. Blackburn, E. De Cristofaro, G. Stringhini, and A. Vakali. Hate is not binary: Studying abusive behavior of #GamerGate on Twitter. In *Proceedings of the ACM Conference on Hypertext and Social Media (HyperText)*, 2017.
- (C26) A. Haslebacher, J. Onaolapo, G. Stringhini. All Your Cards Are Belong To Us: Understanding Online Carding Forums. In *Proceedings of the APWG eCrime Symposium*, 2017.
- (C25) G. Hine, J. Onaolapo, E. De Cristofaro, N. Kourtellis, I. Leontiadis, R. Samaras, G. Stringhini, J. Blackburn. Kek, Cucks, and Goad Emperor Trump: A Measurement Study of 4chan's Politically Incorrect Forum and its Effect on the Web. In *Proceedings of the International Conference on Web and Social Media (ICWSM)*, 2017.
- (C24) P. Andriotis, S. Li, T. Spyridopoulos, G. Stringhini. A comparative study of Android users' privacy preferences under the runtime permission model. In *Proceedings of the International Conference on Human Aspects of Information Security, Privacy and Trust*, 2017.
- (C23) E. Kolodenker, W. Koch, G. Stringhini, M. Egele. PayBreak: Defense against cryptographic ransomware. In *Proceedings of the ACM Asia Conference on Computer and Communications Security (ASIACCS)*, 2017.
- (C22) S. Sajadmanesh, S. Jafarzadeh, S.A. Ossia, H.R. Rabiee, H. Haddadi, Y. Mejova, M. Musolesi, E. De Cristofaro, G. Stringhini. Kissing Cuisines: Exploring Worldwide Culinary Habits on the Web. In *Proceedings of the International World Wide Web Conference (WWW), Web Science Track*, 2017.
- (C21) E. Mariconti, J. Onaolapo, S. Ahmad, N. Nikiforou, M. Egele, N. Nikiforakis, G. Stringhini. What's in a Name? Understanding Profile Name Reuse on Twitter. In *Proceedings of the International World Wide Web Conference (WWW)*, 2017.

- (C20) E. Mariconti, L. Onwuzurike, P. Andriotis, E. De Cristofaro, G. Ross, G. Stringhini. MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models. In *Proceedings of the ISOC Network and Distributed Systems Symposium (NDSS)*, 2017.
- (C19) J. Onaolapo, E. Mariconti, G. Stringhini. What Happens After You Are Pwnd: Understanding The Use Of Stolen Webmail Credentials In The Wild. In *Proceedings of the Internet Measurement Conference (IMC)*, 2016.
- (C18) S. J. Murdoch, I. Becker, R. Abu Salma, R. Anderson, N. Bohm, A. Hutchings, M. A. Sasse, G. Stringhini. Are Payment Card Contracts Unfair? In *Proceedings of Financial Cryptography and Data Security*, 2016.
- (C17) S. Hao, K. Borgolte, N. Nikiforakis, G. Stringhini, M. Egele, M. Eubanks, B. Krebs, G. Vigna. Drops for Stuff: An Analysis of Reshipping Mule Scams. In *Proceedings of the ACM Symposium on Computer and Communication Security (CCS)*, 2015.
- (C16) G. Stringhini, P. Mourlanne, G. Jacob, M. Egele, C. Kruegel, G. Vigna. EvilCohort: Detecting Communities of Malicious Accounts on Online Services. In *Proceedings of the USENIX Security Symposium*, 2015.
- (C15) G. Stringhini, O. Thonnard. That Ain't You: Blocking Spearphishing Through Behavioral Modelling. In *Proceedings of the Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2015.
- (C14) J. Huang, G. Stringhini, P. Yong. Quit Playing Games With My Heart: Understanding Online Dating Scams. In *Proceedings of the Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2015.
- (C13) A. Zarras, A. Kapravelos, G. Stringhini, T. Holz, C. Kruegel, G. Vigna. The Dark Alleys of Madison Avenue: Understanding Malicious Advertisements. In *Proceedings of the Internet Measurement Conference (IMC)*, 2014.
- (C12) G. Stringhini, O. Hohlfeld, C. Kruegel, and G. Vigna. The Harvester, the Botmaster, and the Spammer: On the Relations Between the Different Actors in the Spam Landscape. In *Proceedings of the ACM Symposium on Information, Computer and Communications Security (ASIACCS)*, 2014.
- (C11) N. Nikiforakis, F. Maggi, G. Stringhini, M. Z. Rafique, W. Joosen, C. Kruegel, F. Piessens, G. Vigna, and S. Zanero. Stranger Danger: Exploring the Ecosystem of Ad-based URL Shortening Services. In *Proceedings of the International World Wide Web Conference (WWW)*, 2014.
- (C10) G. Stringhini, C. Kruegel, and G. Vigna. Shady Paths: Leveraging Surfing Crowds to Detect Malicious Web Pages. In *Proceedings of the ACM Symposium on Computer and Communication Security (CCS)*, 2013.
- (C9) G. Stringhini, G. Wang, M. Egele, C. Kruegel, G. Vigna, H. Zheng, and B. Y. Zhao. Follow the Green: Growth and Dynamics in Twitter Follower Markets. In *Proceedings of the Internet Measurement Conference (IMC)*, 2013.
- (C8) F. Maggi, A. Frossi, G. Stringhini, B. Stone-Gross, C. Kruegel, G. Vigna, and S. Zanero. Two Years of Short URLs Internet Measurement: Security Threats and Countermeasures. In *Proceedings of the International World Wide Web Conference (WWW)*, 2013.

(C7) M. Egele, G. Stringhini, C. Kruegel, and G. Vigna. Compa: Detecting Compromised Accounts on Social Networks. In *Proceedings of the ISOC Network and Distributed Systems Symposium (NDSS)*, 2013.

(C6) G. Stringhini, M. Egele, A. Zarras, T. Holz, C. Kruegel, and G. Vigna. B@bel: Leveraging Email Delivery for Spam Mitigation. In *Proceedings of the USENIX Security Symposium*, 2012.

(C5) A. Doupè, M. Egele, B. Caillat, G. Stringhini, G. Yakin, A. Zand, L. Cavedon, and G. Vigna. Hit 'em Where it Hurts: A Live Security Exercise on Cyber Situational Awareness. In *Proceedings of the Annual Computer Security Applications Conference (ACSAC)*, 2011.

(C4) G. Stringhini, T. Holz, B. Stone-Gross, C. Kruegel, and G. Vigna. BotMagnifier: Locating Spambots on the Internet. In *Proceedings of the USENIX Security Symposium*, 2011.

(C3) G. Stringhini, C. Kruegel, and G. Vigna. Detecting Spammers on Social Networks. In *Proceedings of the Annual Computer Security Applications Conference (ACSAC)*, 2010.

(C2) G. Stringhini, M. Migliardi. Travelling Information For Intrusion Prevention Systems. In *Security & Management*, 2010.

(C1) G. Stringhini, M. Migliardi. A distributed model for intrusion detection and prevention. In *Proceedings of the WWW/Internet International Conference*, 2009.

Workshop Proceedings

(W20) C. Bradley, G. Stringhini. A Qualitative Evaluation of Two Different Law Enforcement Approaches on Dark Net Markets. In *Workshop on Attackers and Cyber-Crime Operations (WACCO)*, 2019.

(W19) J. Onalapo, M. Lazarov, G. Stringhini. Master of Sheets: A Tale of Compromised Cloud Documents. In *Workshop on Attackers and Cyber-Crime Operations (WACCO)*, 2019.

(W18) S. Zannettou, T. Caulfield, E. De Cristofaro, M. Sirivianos, G. Stringhini, J. Blackburn. Disinformation Warfare: Understanding State-Sponsored Trolls on Twitter and Their Influence on the Web. In *Workshop on Computational Methods in Online Misbehavior (CYBERSAFETY)*, 2019.

(W17) M. Edwards, G. Suarez-Tangil, C. Peersman, G. Stringhini, A. Rashid, M. Whitty. The Geography of Online Dating Fraud. In *Workshop on Technology and Consumer Protection (ConPro)*, 2018.

(W16) E. Bernard-Jones, J. Onalapo, G. Stringhini. BABELTOWER: How Language Affects Criminal Activity in Stolen Webmail Accounts. In *Workshop on Computational Methods in CyberSafety, Online Harassment and Misinformation (CYBERSAFETY)*, 2018.

(W15) S. Zannettou, B. Bradlyn, E. De Cristofaro, M. Sirivianos, G. Stringhini, H. Kwak, J. Blackburn. What is Gab? A Bastion of Free Speech or an Alt-Right Echo Chamber?. In *Workshop on Computational Methods in CyberSafety, Online Harassment and Misinformation (CYBERSAFETY)*, 2018.

- (W14) E. Mariconti, J. Onaolapo, G. Ross, and G. Stringhini. The Cause of All Evils: Assessing Causality Between User Actions and Malware Activity. In *Proceedings of the USENIX Workshop on Cyber Security Experimentation and Test (CSET)*, 2017.
- (W13) J. Serrà, I. Leontiadis, D. Spathis, G. Stringhini, J. Blackburn, and A. Vakali. Class-based Prediction Errors to Categorize Text with Out-of-vocabulary Words. In *Proceedings of the Workshop on Abusive Language (ALW)*, 2017.
- (W12) G. Mba, J. Onaolapo, G. Stringhini, L. Cavallaro. Flipping 419 Cybercrime Scams: Targeting the Weak and the Vulnerable. In *Companion Proceedings of the International World Wide Web Conference (WWW), International Workshop on Computational Methods for CyberSafety (CYBERSAFETY)*, 2017.
- (W11) D. Chatzakou, N. Kourtellis, J. Blackburn, E. De Cristofaro, G. Stringhini, and A. Vakali. Measuring #GamerGate: A Tale of Hate, Sexism, and Bullying. In *Companion Proceedings of the International World Wide Web Conference (WWW), International Workshop on Computational Methods for CyberSafety (CYBERSAFETY)*, 2017.
- (W10) M. Whitty, M. Edwards, M. Levi, C. Peersman, A. Rashid, A. Sasse, T. Sorell, G. Stringhini. Ethical and Social Challenges with developing Automated Methods to Detect and Warn potential victims of Mass-marketing Fraud (MMF). In *Companion Proceedings of the International World Wide Web Conference (WWW), International Workshop on Computational Methods for CyberSafety (CYBERSAFETY)*, 2017.
- (W9) P. Andriotis, M.A. Sasse, G. Stringhini. Permissions Snapshots: Assessing Users' Adaptation to the Android Runtime Permission Model. In *Proceedings of the IEEE International Workshop on Information Forensics and Security (WIFS)*, 2016.
- (W8) E. Mariconti, J. Onaolapo, G. Ross, G. Stringhini. What's your major threat? On the differences between the network behavior of targeted and commodity malware. In *Proceedings of the International Workshop on Malware Analysis (WMA)*, 2016.
- (W7) M. Lazarov, J. Onaolapo, G. Stringhini. Honey Sheets: What Happens to Leaked Google Spreadsheets? In *Proceedings of the USENIX Workshop on Cyber Security Experimentation and Test (CSET)*, 2016.
- (W6) I. Becker, A. Hutchings, R. Abu Salma, S. J. Murdoch, R. Anderson, N. Bohm, M. A. Sasse, G. Stringhini. International Comparison of Bank Fraud Reimbursement: Customer Perceptions and Contractual Terms. In *Proceedings of the Workshop on the Economics of Information Security (WEIS)*, 2016.
- (W5) E. Mariconti, J. Onaolapo, S. Ahmad, N. Nikiforou, M. Egele, N. Nikiforakis, G. Stringhini. Why Allowing Profile Name Reuse Is A Bad Idea. In *Proceedings of the European Workshop on System Security (EUROSEC)*, 2016.
- (W4) M.B. Line, A. Zand, G. Stringhini, R. Kemmerer. Targeted Attacks against Industrial Control Systems: Is the Power Industry Prepared?. In *Proceedings of the Smart Energy Grid Security Workshop (SEGS)*, 2014.
- (W3) J. Iedemska, G. Stringhini, R. Kemmerer, C. Kruegel, and G. Vigna. The Tricks of the Trade: What Makes Spam Campaigns Successful?. In *Proceedings of the International Workshop on Cyber Crime (IWCC)*, 2014.

(W2) G. Stringhini, M. Egele, C. Kruegel, and G. Vigna. Poultry Markets: On the Underground Economy of Twitter Followers. In *Proceedings of the ACM SIGCOMM Workshop on Online Social Networks (WOSN)*, 2012.

(W1) B. Stone-Gross, T. Holz, G. Stringhini, and G. Vigna. The Underground Economy of Spam: A Botmaster's Perspective of Coordinating Large-Scale Spam Campaigns. In *Proceedings of the USENIX Workshop on Large-Scale Exploits and Emerging Threats (LEET)*, 2011.

Patents

2017 **Systems and Methods for Detecting Compromised Messaging Accounts**, U.S. Patent and Trademark Office — Publication Number US9756007 B1.

Conference and Track Chair Service

2018, 2019 **Program Chair**, *APWG eCrime Symposium*.

2016 **Program Co-chair**, *International World Wide Web Conference (WWW), Poster Track*.

2013 **Program Committee Chair**, *Graduate Student Workshop on Computing (GSWC)*.

2012 **Program Committee Vice-chair**, *Graduate Student Workshop on Computing (GSWC)*.

Program Committee Service

2016, 2017, **Program Committee Member**, *USENIX Security Symposium*.

2018, 2019,
2020

2018, 2019, **Program Committee Member**, *IEEE Symposium on Security and Privacy (Oakland)*.
2020

2016, 2017, **Program Committee Member**, *The Web Conference (WWW), Security and Privacy Track*.

2018, 2019 **Program Committee Member**, *ACM SIGCOMM Internet Measurement Conference (IMC)*.

2015, 2016, **Program Committee Member**, *ACM Conference on Computer and Communications Security (CCS)*.
2017, 2018,
2019

2015, 2016, **Program Committee Member**, *Annual Computer Security Applications Conference (ACSAC)*.
2017, 2018,
2019

2015, 2018 **Program Committee Member**, *Network and Distributed System Security Symposium (NDSS)*.

2015, 2016, **Program Committee Member**, *International Conference on Detection of Intrusions and Malware and Vulnerability Assessment (DIMVA)*.
2017, 2018,
2019

2015, 2016, **Program Committee Member**, *European Workshop on System Security (EuroSec)*.
2017, 2018

2017, 2018 **Program Committee Member**, *Workshop on Innovations in Mobile Privacy and Security (IMPS)*.

2017, 2018 **Program Committee Member**, *Workshop on Targeted Attacks*.

- 2017, 2018, 2019 **Program Committee Member**, *CyberSafety Workshop*.
- 2016, 2017, 2018 **Program Committee Member**, *USENIX Workshop on Cyber Security Experimentation and Test (CSET)*.
- 2016, 2017 **Program Committee Member**, *eCrime Symposium*.
- 2017 **Program Committee Member**, *ACM Asia Conference on Computer and Communications Security (ASIACCS)*.
- 2016 **Program Committee Member**, *International Symposium on Engineering Secure Software and Systems (ESSoS)*.
- 2015 **Program Committee Member**, *ACM Cloud Computing Security Workshop (CCSW)*.
- 2015 **Program Committee Member**, *International World Wide Web Conference (WWW), Demo Track*.
- 2015 **Program Committee Member**, *International Conference on Availability, Reliability and Security (ARES)*.
- 2015 **Program Committee Member**, *IEEE International Conference on Distributed Computing Systems (ICDCS), Security and Privacy Track*.
- 2015 **Program Committee Member**, *OWASP AppSecEU*.
- 2014 **Program Committee Member**, *IEEE International Symposium on Cyberspace Safety and Security (CSS)*.
- 2014 **Program Committee Member**, *Annual Workshop on Simplifying Complex Networks for Practitioners (SIMPLEX)*.
- 2010, 2011 **Program Committee Member**, *Graduate Student Workshop on Computing (GSWC)*.

Journal Reviews

- 2017 **Reviewer**, *ACM Transactions on Internet Technology*.
- 2016 **Reviewer**, *Journal of Information Security and Applications*.
- 2015 **Reviewer**, *IEEE Transactions on Control of Network Systems*.
- 2015 **Reviewer**, *ACM Computing Surveys*.
- 2014-2015 **Reviewer**, *IEEE Security & Privacy Magazine*.
- 2012-2015 **Reviewer**, *IEEE Transactions on Dependable and Secure Computing (TDSC)*.
- 2014 **Reviewer**, *Network Science*.
- 2012 **Reviewer**, *Journal of Computer Security*.
- 2012 **Reviewer**, *Elsevier Journal on Computer Networks (COMNET)*.

Teaching

- 2019 **EC 327: Introduction to Software Engineering**, *Boston University*, Boston, MA.
- 2015-2018 **UCL Computer Science Hacking Seminar**, *University College London*, London, UK.
- 2016-2018 **SECUGC62: Cybercrime**, *University College London*, London, UK.
- 2015-2018 **COMPGA02: Computer Security 2**, *University College London*, London, UK.
- 2017 **Malware**, *University of Oxford*, Oxford, UK.
Lecturer for a week-long course in the Software Engineering Programme (SEP)
- 2015-2017 **Malware**, *University of Oxford*, Oxford, UK.
Lecturer for a week-long course in the Centre for Doctoral Training in Cyber Security

2017 **Usable Security and Privacy in Online Social Networks Summer School**, *Cyprus University of Technology*, Cyprus, CY.

Lecture

2010-2013 **International Capture the Flag (iCTF) — Organizer**, *UC Santa Barbara*, Santa Barbara, CA.

Participated in the organization of the world's largest educational hacking competition

■ Mentorship and Supervision

Postdoctoral Researchers

2018-2019 **Srdjan Matic**, *Research Associate* — *BotThings: Modelling The Potential Impact Of IoT Boosted Botnet Attacks*, Now postdoctoral researcher at TU Berlin.

2017-2018 **Guillermo Suárez De Tangil**, *Research Associate* — *DAPM: Detecting and Preventing Mass-Marketing Fraud (MMF)*, Now Faculty at King's College London.

2016 **Panagiotis Andritiotis**, *Research Associate* — *Inferring the Purpose of Network Activities*, Now Faculty at the University of the West of England.

PhD Students

2018- **Beliz Kaleli**, *BU*.

2018- **Yuping Wang**, *BU*.

2016- **Dario Adriano Bermudez Villalva**, *UCL*.

2016- **Cerys Bradley**, *UCL*.

2016- **Colin Ife**, *UCL*.

2016- **Beverley Nutter**, *UCL*.

2015- **Beatrice Perez**, *UCL*, *Second Supervisor to Mirco Musolesi*.

2015-2019 **Enrico Mariconti**, *UCL*, Now Lecturer (Assistant Professor) at University College London.

2014-2019 **Jeremiah Onalapo**, *UCL*, Now postdoctoral researcher at Northeastern University.

2014-2018 **Lucky Onwuzurike**, *UCL*, *Second Supervisor to Emiliano De Cristofaro*, Now at EY.

■ PhD examinations

2018-2019 **PhD Committee memberships**, *Sajjad Arshad (Northeastern)*, *Ahmet Buyukkayhan (Northeastern)*, *Andrew Cutler (BU)*.

2017 **External Examiner** — **Confirmation VIVA**, *Rodrigo Carvalho*, University of Oxford.

2016 **Internal Examiner** — **PhD VIVA**, *Marjan Falahrastegar*, Queen Mary University of London.

2016 **External Examiner** — **Transfer of Status VIVA**, *Mariam Nouh*, University of Oxford.

2016 **Internal Examiner** — **PhD VIVA**, *Kimberly Tam*, Royal Holloway, University of London.

2016 **External Examiner** — **Transfer of Status VIVA**, *Rodrigo Carvalho*, University of Oxford.

2015 **Internal Examiner** — **Upgrade VIVA**, *Ingolf Becker*, University College London.

■ Panel Memberships

03/07/2018 **Witness to the Select Committee on International Relations of the House of Lords**, *House of Parliament*, London, UK, Gave evidence on the threats posed by state and non-state actors to the UK.

11/21/2017 **Cybersecurity Summit**, *Cybertonica inc.*, London, UK.

02/23/2017 **Why Should Businesses Care About Cyber Warfare?**, *SC Congress*, London, UK.

Invited Talks

- 07/27/2018 **Understanding the influence of fringe communities on the greater Web**, *University of Chicago*, Chicago, IL.
- 04/16/2018 **A Measurement Study of 4chan's Politically Incorrect Board and its Effects on the Web**, *Europol ECTC Advisory Board*, The Hague, The Netherlands.
- 01/22/2018 **The Influence of Fringe Communities in the Spread of Fake News**, *WebRoots Democracy Workshop*, London, United Kingdom.
- 11/30/2017 **Interdisciplinary Cybercrime Research: Where Are We?**, *RISCS Cybercrime Workshop*, London, United Kingdom.
- 11/16/2017 **Understanding and Mitigating Online Abuse**, *Exeter University*, Exeter, United Kingdom.
- 09/13/2017 **The Hacker, the Swindler, and the Troll: Understanding and Measuring Abuse on Online Services**, *CISPA, University of Saarland*, Saarbrücken, Germany.
- 09/11/2017 **Cyberfraud and Scams**, *Dagstuhl Seminar*, Schloss Dagstuhl, Germany.
- 07/14/2017 **Understanding the Use of Stolen Credentials by Cybercriminals**, *Cambridge Cybercrime Conference*, Cambridge, UK.
- 06/21/2017 **Understanding Modern Cybercriminal Operations**, *AON Benfield Research Forum*, London, UK.
- 05/24/2017 **Fighting Modern Cybercriminal Operations**, *University of Kent*, Canterbury, UK.
- 05/22/2017 **A Measurement Study of 4chan's Politically Incorrect Forum and its Effects on the Web**, *VoxPol Workshop*, London, UK.
- 11/17/2016 **The Hacker, the Swindler, and the Troll: Understanding and Measuring Abuse on Online Services**, *University of California, Santa Barbara*, Santa Barbara, CA.
- 10/26/2016 **Understanding and Measuring Abuse on Online Services**, *Facebook*, London, UK.
- 06/26/2016 **Understanding and Fighting Cybercriminal Operations**, *Telefonica Investigacion y Desarrollo*, Barcelona, Spain.
- 04/29/2016 **Fighting Modern Cybercriminal Operations**, *University of Oxford*, Oxford, UK.
- 03/16/2016 **Following the Trail of Cybercriminal Operations**, *Workshop on the Human Factors in Security*, *University of Surrey*, Guildford, UK.
- 09/23/2015 **Detecting Compromised Accounts on Online Services**, *Lancaster University*, Lancaster, UK.
- 07/21/2015 **On The Threats To Cloud-based Online Service Users**, *International Conference on High Performance Computing and Simulation (HPCS)*, Amsterdam, Netherlands.
- 05/05/2015 **Dissemination of False and Malicious Information on Online Social Networks**, *Sikkerhet & Sårbarhet Workshop*, Trondheim, Norway.
- 05/04/2015 **Dissemination of False and Malicious Information on Online Social Networks**, *Norwegian University of Science and Technology (NTNU)*, Trondheim, Norway.
- 04/21/2015 **On The Exploitation Of Trust On Online Social Networks (And What We Can Do About It)**, *University of Cambridge*, Cambridge, UK.
- 02/09/2015 **On The Exploitation Of Trust On Online Social Networks (And What We Can Do About It)**, *University of Oxford*, Oxford, UK.

- 02/05/2015 **On The Exploitation Of Trust On Online Social Networks (And What We Can Do About It)**, *University of Birmingham*, Birmingham, UK.
- 02/03/2015 **Large Scale Cybercrime Vs. Targeted Attacks: What Are The Differences And How Can We Fight These Threats?**, *CyberCount Workshop*, London, UK.
- 10/30/2014 **Leveraging The Scale Of Cybercrime To Fight Malware Operations**, *Royal Holloway, University of London*, Egham, UK.
- 10/06/2014 **Leveraging The Scale Of Cybercrime To Fight Malware Operations**, *CSecLab Workshop on Mobile Security*, Genova, Italy.
- 05/01/2013 **Fighting Targeted Email Attacks**, *Symantec Corp.*, San Francisco, CA.
- 04/26/2013 **Stepping Up The Cybersecurity Game**, *Yahoo! Inc.*, Sunnyvale, CA.
- 12/13/2012 **Modelling Host Network Behavior To Detect Stealthy And Targeted Attacks**, *IBM T.J. Watson Research Center*, Yorktown Heights, NY.
- 12/22/2011 **The Spammer, the Botmaster, And The Researcher: On The Arms Race In Spamming Botnet Mitigation**, *Università degli Studi di Genova*, Genova, Italy.
- 07/06/2010 **Detecting Spammers On Social Networks**, *Politecnico di Milano*, Milano, Italy.
- 03/23/2010 **Detecting Spammers On Twitter**, *Twitter Inc.*, San Francisco, CA.

In the Press

- 4/1/2019 **“The Left Can’t Meme”:** **How Right-Wing Groups Are Training the Next Generation of Social Media Warriors**, *MotherJones*, <https://www.motherjones.com/politics/2019/04/right-wing-groups-are-training-young-conservatives-to-win-the-next-meme-war/>.
- 3/18/2019 **YouTube removes videos continuing to celebrate New Zealand mosque attacks**, *Sky News*, <https://news.sky.com/story/youtube-removes-videos-continuing-to-celebrate-new-zealand-mosque-attacks-11669478>.
- 2/8/2019 **Twitter still can’t keep up with its flood of junk accounts, study finds**, *Wired*, <https://www.wired.com/story/twitter-abusive-apps-machine-learning/>.
- 11/23/2018 **Who let the trolls out? Researchers investigate state-sponsored trolls**, *TechXplore*, <https://techxplore.com/news/2018-11-trolls-state-sponsored.html>.
- 10/29/2018 **Pittsburgh Synagogue Shooting Puts Spotlight on Fringe Platforms and Their Partners**, *The Wall Street Journal*, <https://www.wsj.com/articles/pittsburgh-synagogue-shooting-puts-spotlight-on-fringe-platforms-and-their-partners-1540861173>.
- 07/08/2018 **Where Do Memes Come From?**, *BBC Trending*, <https://www.bbc.co.uk/programmes/w3csws6t>.
- 03/02/2018 **Così odio, insulti e fake news invadono i nostri schermi**, *Giornale Radio Rai GRI*, <https://soundcloud.com/user-873190463/elezioni2018-gianluca-stringhini-cosi-odio-insulti-e-fake-news-invadono-i-nostri-schermi>.
- 11/24/2017 **Long read: Key evidence linking Kremlin to social media trolls is lacking**, *Sky News*, <https://news.sky.com/story/long-read-key-evidence-linking-kremlin-to-social-media-trolls-is-lacking-11137255>.
- 11/2/2017 **Study finds fringe communities on Reddit and 4chan have high influence on flow of alternative news to Twitter**, *Phys.org*, <https://phys.org/news/2017-11-fringe-reddit-4chan-high-alternative.html>.
- 06/13/2017 **Hate map, la prima mappa sull’odio online**, *L’Unità (in Italian)*, <http://www.unita.tv/focus/hate-map-la-prima-mappa-sullodio-online/>.

- 06/13/2017 **La prima mappa del 'lato oscuro' del web. "Così odio, insulti e fake news viaggiano online"**, *La Repubblica (in Italian)*, http://www.repubblica.it/tecnologia/social-network/2017/06/13/news/odio_insulti_e_fake_news_la_prima_mappa_del_lato_oscuro_del_web-167988521/.
- 06/12/2017 **Dalle fonti ai social, ecco la prima mappa dell'odio online**, *Ansa (in Italian)*, http://www.ansa.it/sito/notizie/tecnologia/internet_social/2017/06/12/mappa-odio-online-dalle-fonti-ai-social_253eca7b-4d3f-457b-a1ab-6e857d964925.html.
- 06/10/2017 **Research examines fake news, hate speech and 4chan**, *Sky News*, <http://news.sky.com/story/research-examines-fake-news-hate-speech-and-4chan-10910915>.
- 06/09/2017 **Shining a light on the dark corners of the web**, *Nature*, <http://www.nature.com/news/shining-a-light-on-the-dark-corners-of-the-web-1.22128>.
- 11/17/2016 **4chan raids: How one dark corner of the internet is spreading its shadows**, *The Independent*, <http://www.independent.co.uk/life-style/gadgets-and-tech/4chan-raids-how-one-dark-corner-of-the-internet-is-spreading-its-shadows-a7416631.html>.
- 11/12/2016 **Meme, board e viralità: la rete lontana dai social che ha incoronato Trump**, *La Repubblica (in Italian)*, http://www.repubblica.it/speciali/esteri/presidenziali-usa2016/2016/11/12/news/trump_internet_meme_virali_social_4chan-151826943/?ref=HREC1-1.
- 11/11/2016 **These are the world's most diverse cuisines**, *The Independent*, <https://www.indy100.com/article/healthy-diverse-top-healthiest-countries-cuisine-food-in-the-world-list-7412171>.
- 11/03/2016 **How Data Mining Reveals the World's Healthiest Cuisines**, *MIT Technology Review*, <https://www.technologyreview.com/s/602790/how-data-mining-reveals-the-worlds-healthiest-cuisines/>.
- 10/18/2016 **This Is What Hackers Actually Do With Your Stolen Personal Information**, *Huffington Post*, http://www.huffingtonpost.co.uk/entry/what-hackers-actually-do-with-your-stolen-personal-information_uk_58049f32e4b0e982146cd18f?jfn6f1p9kij1ll3di.
- 10/16/2016 **How hackers handle stolen login data**, *BBC News*, <http://www.bbc.co.uk/news/technology-37510501>.
- 10/14/2016 **Scientists Invented a Tool to Expose 4chan's Racist Trolling Campaigns**, *Motherboard*, <http://motherboard.vice.com/read/block-4chan-to-stop-the-alt-right-from-spreading-racist-memes-scientists-say>.
- 10/14/2016 **Rane, odio e pro-Trump: così funziona 4chan, la pancia di internet**, *La Stampa (in Italian)*, <http://www.lastampa.it/2016/10/14/societa/rane-odio-e-protrump-cos-funziona-4chan-la-pancia-di-internet-qSR7NV32eMNHYxYtWGh4tJ/pagina.html>.
- 08/24/2016 **UK Unis Under Fire as 56% Suffer Ransomware Infection**, *Infosecurity Magazine*, <http://www.infosecurity-magazine.com/news/uk-unis-under-fire-56-suffer>.
- 06/07/2016 **Will you get reimbursed if you're a bank fraud victim? Brits think not**, *The Register*, http://www.theregister.co.uk/2016/06/06/bank_terms_study.
- 03/22/2016 **Hackers for Hire**, *Business Daily* — *BBC World Service*, <http://www.bbc.co.uk/programmes/p03mqj20>.
- 04/11/2015 **Analyzing Reshipping Mule Scams**, *Schneier on Security*, https://www.schneier.com/blog/archives/2015/11/analyzing_reshi.html.
- 09/28/2015 **With Stolen Cards, Fraudsters Shop to Drop**, *Krebs on Security*, <http://krebsonsecurity.com/2015/09/with-stolen-cards-fraudsters-shop-to-drop/>.
- 09/19/2015 **Amico, spia o truffatore? Come difendersi dai finti profili social (in Italian)**, *La Stampa*, <http://www.lastampa.it/2015/09/19/tecnologia/amico-spia-o-truffatore-come-difendersi-dai-finti-profil-social-HPH1iX5bny7vquC8yGDs0l/pagina.html>.

- 05/16/2015 **Online Dating Scams Could Cost Lonely Men Thousands**, *The Young Turks*, <https://www.youtube.com/watch?v=LbKDH7wIKS4>.
- 05/14/2015 **China's Ingenious Online Dating Scams Put Ours To Shame**, *Buzzfeed*, <http://www.buzzfeed.com/josephbernstein/chinas-ingenious-online-dating-scams-put-ours-to-shame>.
- 05/07/2015 **Online Dating Scams**, *Schneier on Security*, https://www.schneier.com/blog/archives/2015/05/online_dating_s.html.
- 11/12/2014 **Malware doesn't discriminate when it comes to Web ads**, *InfoWorld*, <http://www.infoworld.com/article/2846993/malware/malware-doesnt-discriminate-when-it-comes-to-web-ads.html>.
- 09/24/2014 **Malrettende angrep – er kraftbransjen forberedt? (in Norwegian)**, *Energiteknikk*, Issue 6, September 2014, Pages 74-75.
- 07/20/2014 **Im Netz dem Bösen Jungs (in German)**, *Frankfurter Allgemeine Sonntagszeitung*, Issue 29, Page 45.
- 06/21/2014 **Spam in Blick (in German)**, *Deutschlandfunk*, http://www.deutschlandfunk.de/informatik-spam-im-blick.684.de.html?dram:article_id=289984.
- 06/19/2014 **A Spam Trinity: Email Harvesters, Botmasters, Spammers**, *Threatpost*, <http://threatpost.com/a-spam-trinity-email-harvesters-botmasters-spammers>.
- 06/04/2014 **Relations between spam landscape actors can be leveraged for detection**, *Help Net Security*, <http://www.net-security.org/secworld.php?id=16959>.
- 05/02/2014 **Boffins pen 'Guide to better spamming'**, *The Register*, http://www.theregister.co.uk/2014/05/02/boffins_pen_guide_to_better_spamming/.
- 02/04/2014 **Weak Links: URL Shorteners**, *Brown Hat Security*, <http://brownhatsecurity.com/article.php?story=2014020517493113>.
- 12/06/2013 **Hero Hackers: Computer Security Group Arms the Technological World**, *Coastlines — UCSB Alumni Association*, http://www.ucsbalum.com/Coastlines/2013/Fall/feature_cyberthreats.html.
- 05/03/2013 **Two-Factor Authentication No Cure-all for Twitter Security Woes**, *Threatpost*, <http://threatpost.com/two-factor-authentication-no-cure-all-for-twitter-security-woes>.
- 03/29/2011 **Behind the curtain of a botnet business**, *CSO Online*, <http://www.csoonline.com/article/2127919/social-engineering/behind-the-curtain-of-a-botnet-business.html>.
- 08/10/2010 **Researchers Kneecap "Pushdo" Spam Botnet**, *Krebs on Security*, <https://krebsonsecurity.com/2010/08/researchers-kneecap-pushdo-spam-botnet>.
- 03/17/2010 **New Free Service Filters Twitter Spam**, *Darkreading*, <http://www.darkreading.com/end-user/new-free-service-filters-twitter-spam/223900274>.