

Damon Liwanu McCoy

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Research Interests

My primary research interests are in the areas of cyber security and cyber-physical security. I am especially focused on empirical measurement based and data-driven security that enables the systematic identification of potential intervention points and evaluation of security defenses.

Education

- December 2009 **Ph.D., Computer Science**, *University of Colorado*, Boulder.
Co-Advisors Dirk Grunwald and Douglas Sicker
Thesis Quantifying and Improving Wireless Privacy
- December 2007 **M.S., Computer Science**, *University of Colorado*, Boulder.
Advisor Douglas Sicker
Thesis Anonymity Analysis of Freenet
- May 1999 **B.S., Computer Science**, *University of Colorado*, Boulder.

Academic Appointments

- 2015 - Present Assistant Professor, Department of Computer Science and Engineering, New York University
- 2014 - Present Research Staff, International Computer Science Institute
- 2014 - 2015 Visiting Research Scientist, Department of Electrical Engineering and Computer Sciences, University of California, Berkeley
- 2012 - 2015 Assistant Professor, Department of Computer Science, George Mason University
- 2009 - 2011 Post-Doc, University of California, San Diego

Funding

- LinkedIn (PI) Understanding Fraudulent Accounts. \$25,000 2016
- Google (PI) Junior Faculty Google Security Privacy and Anti-abuse Applied Reward. \$50,000 2016
- QNRF (NYU PI) Qatar National Research Fund: Enhancing the Performance, Security, and Blocking-Resistance of Anonymous Communication Networks \$900,000 (Lead PI: Masha'el Al-Sabah \$100,000 to NYU). 2016-2017
- NSF (PI) Ideas Lab: Interdisciplinary Pathways towards a Secure Internet. \$111,816 2013-2014

Google (PI) Understanding the Business of Traffic Distribution System Services. \$75,000 2013
General (PI) Cyber-security Pen Test. \$241,608 2013-2015
Motors
DHS (Co-PI) DHS Graduate Fellowship Training for Homeland Security. \$256,336 2012-2017
NSF (NYU PI) TWC: Frontier: Collaborative: Beyond Technical Security: Developing an Empirical Basis for Socio-Economic Perspectives. Award 1237076 \$10,000,000 (\$668,050) 2012-2017

Advising

Graduated Ph.D. Students

Mohammad Karami. May 2016

Thesis title: Understanding and Undermining The Business of DDoS Booter Services

First Position: Google

Sean Palka. December 2015

Thesis title: Automated Test Case Generator for Phishing Prevention using Generative Grammars

First Position: Booz Allen Hamilton

Jason Clark. July 2014.

Thesis title: Profiling, Tracking, and Monetizing: An Analysis of Internet and Online Social Network Concerns

First Position: Insider Threat Research, CMU SEI

Graduated M.S. Students

Hitesh Dharmdasani. May 2013.

Thesis title: Botnets and Crypto Currency - Effects of Botnets on the Bitcoin Economy

First Position: Researcher, FireEye

Current Ph.D. Students

Laura Jacobs (NYU). Supervised since August 2016

Periwinkle Doerfler (NYU). Supervised since August 2016

Mohammad Rezaeirad (GMU). Supervised since January 2014

Undergraduate Research Advising

Luis Ramirez. NSF REU Summer 2013

Sam Zhang. NSF REU Summer 2013

Publications

Journal Articles and Magazines

- JNSLP '16 Zachary K. Goldman and Damon McCoy. Detering Financially Motivated Cybercrime. *Journal of National Security Law and Policy*, Vol. 8, No. 3, 2016.
- CACM '16 Meiklejohn, Sarah and Pomarole, Marjori and Jordan, Grant and Levchenko, Kirill and McCoy, Damon and Voelker, Geoffrey M. and Savage, Stefan. A Fistful of Bitcoins: Characterizing Payments Among Men with No Names. *Communications of the ACM* Volume 59 Issue 4, April 2016
- ;Login '13 Mohammad Karami, Damon McCoy. Rent to Pwn: Analyzing Commodity Booter DDoS Services. *USENIX ;login:*, Vol. 38, No. 6, December 2013.
- ;Login '13 Sarah Meiklejohn, Marjori Pomarole, Grant Jordan, Kirill Levchenko, Damon McCoy, Geoffrey M. Voelker, and Stefan Savage. A Fistful of Bitcoins: Characterizing Payments Among Men with No Names. *USENIX ;login:*, Vol. 38, No. 6, December 2013
- TMC '10 Jeffrey Pang, Ben Greenstein, Michael Kaminsky, Damon McCoy, Srinivasan Seshan. Wifi-Reports: Improving Wireless Network Selection with Collaboration. *IEEE Transactions On Mobile Computing*, Vol. 9 2010. [Impact Factor: 2.28]

Refereed Conference Publication

- WWW '17 Rebecca S Portnoff, Sadia Afroz, Greg Durrett, Jonathan K Kummerfeld, Taylor Berg-Kirkpatrick, Damon McCoy, Kirill Levchenko and Vern Paxson. Automated Analysis of Cybercriminal Markets. *Proceedings of the World Wide Web Conference (WWW)*, Perth, Australia 2017. [Acceptance Rate: 17%]
- Security '16 Kurt Thomas, Juan Antonio Elices Crespo, Ryan Rasti, Jean-Michel Picod, Cait Phillips, Marc-Andre Decoste, Chris Sharp, Fabio Tirelo, Ali Tofigh, Marc-Antoine Courteau, Lucas Ballard, Robert Shield, Nav Jagpal, Moheeb Abu Rajab, Panayiotis Mavrommatis, Niels Provos, Elie Bursztein, Damon McCoy. Investigating Commercial Pay-Per-Install and the Distribution of Unwanted Software. *Proceedings of the USENIX Security Symposium*, Austin, TX, August 2016. [Acceptance Rate: 16%]
- Security '16 Frank Li, Zakir Durumeric, Jakub Czyz, Mohammad Karami, Damon McCoy, Stefan Savage, Michael Bailey, Vern Paxson. You've Got Vulnerability: Exploring Effective Vulnerability Notifications. *Proceedings of the USENIX Security Symposium*, Austin, TX, August 2016. [Acceptance Rate: 16%]
- eCrime '16 Srikanth Sundaresan, Damon McCoy, Sadia Afroz, and Vern Paxson. Profiling Underground Merchants Based on Network Behavior. *Proceedings of the IEEE Symposium on Electronic Crime Research (eCrime)*, Toronto, Canada, June 2016.
- WWW '16 Mohammad Karami, Youngsam Park and Damon McCoy. Stress Testing the Booters: Understanding and Undermining the Business of DDoS Services. *Proceedings of the World Wide Web Conference (WWW)*, Montreal, Canada, April 2016. [Acceptance Rate: 16%]

- WWW '16 Xiaojing Liao, Chang Liu, Damon McCoy, Elaine Shi and Raheem Beyah. Characterizing Long-tail SEO Spam on Cloud Web Hosting Services. Proceedings of the World Wide Web Conference (WWW), Montreal, Canada, April 2016. [Acceptance Rate: 16%]
- FC '16 Youngsam Park, Damon McCoy and Elaine Shi. Understanding Craigslist Rental Scams. Proceedings of Financial Cryptography and Data Security Conference (FC), Barbados, February 2016.
- NDSS '16 Sheharbano Khattak, David Fifield, Sadia Afroz, Mobin Javed, Srikanth Sundaresan, Vern Paxson, Steven J. Murdoch, and Damon McCoy. Do You See What I See: Differential Treatment of Anonymous Users. Proceedings of the Network and Distributed System Security Symposium (NDSS), San Diego, CA, February 2016. [Acceptance Rate: 15%]
- Oakland '15 Kurt Thomas, Elie Bursztein, Chris Grier, Grant Ho, Nav Jagpal, Alexandros Kapravelos, Damon McCoy, Antonio Nappa, Vern Paxson, Paul Pearce, Niels Provos, Moheeb Abu Rajab. Ad Injection at Scale: Assessing Deceptive Advertisement Modifications. IEEE Symposium on Security & Privacy, San Jose, CA, May 2015. [Acceptance Rate: 14%]
- CHI '15 Jason W. Clark, Peter Snyder, Damon McCoy, Chris Kanich. "I Saw Images I Didn't Even Know I Had:" Understanding User Perceptions of Cloud Storage Privacy. Proceedings of the ACM Conference on Computer-Human Interaction, Seoul, Korea, April 2015 [Acceptance Rate: 19%]
- CCS '14 Kurt Thomas, Dima Iatskiv, Elie Bursztein, Tadek Pietraszek, Chris Grier, Damon McCoy. Dialing Back Abuse on Phone Verified Accounts. Proceedings of the ACM Conference on Computer and Communications Security, Scottsdale, AZ, November 2014. [Acceptance Rate: 19%]
- CCS '14 Paul Pearce, Vacha Dave, Chris Grier, Kirill Levchenko, Saikat Guha, Damon McCoy, Vern Paxson, Stefan Savage, and Geoffrey M. Voelker. Characterizing Large-Scale Click Fraud in ZeroAccess. Proceedings of the ACM Conference on Computer and Communications Security, Scottsdale, AZ, November 2014. [Acceptance Rate: 19%]
- IMC '14 David Wang, Matthew Der, Mohammad Karami, Lawrence Saul, Damon McCoy, Stefan Savage, and Geoffrey M. Voelker. Search + Seizure: The Effectiveness of Interventions on SEO Campaigns. Proceedings of the ACM Internet Measurement Conference, Vancouver, BC, Canada, November 2014 [Acceptance Rate: 23%]
- eCrime '14 Jackie Jones and Damon McCoy. The Check is in the Mail: Monetization of Craigslist Buyer Scams. Proceedings of the IEEE eCrime Research Summit, Birmingham, AL, September 2014. [Acceptance Rate: 40%]
- Oakland '14 Sadia Afroz, Aylin Caliskan Islam, Ariel Stolerman, Rachel Greenstadt, Damon McCoy. Doppelganger Finder: Taking Stylometry to the Underground. Proceedings of the IEEE Symposium and Security and Privacy, San Jose, CA, May 2014. [Acceptance Rate: 14%]
- NDSS '14 Danny Yuxing Huang, Hitesh Dharmdasani, Sarah Meiklejohn, Vacha Dave, Kirill Levchenko, Alex C. Snoeren, Stefan Savage, Nicholas Weaver, Chris Grier, and Damon McCoy. Botcoin: Monetizing Stolen Cycles. Network and Distributed System Security. San Diego, CA, 2014. [Acceptance Rate: 18%]
- NDSS '14 Youngsam Park, Jackie Jones, Damon McCoy, Elaine Shi, Markus Jakobsson. Scambaiter: Understanding Targeted Nigerian Scams on Craigslist. Network and Distributed System Security. San Diego, CA, 2014. [Acceptance Rate: 18%]

- eCrime '13 Mohammad Karami, Shiva Ghaemi and Damon McCoy. Folex: An Analysis of an Herbal and Counterfeit Luxury Goods Affiliate Program. APWG eCrime Researchers Summit. San Francisco, CA, 2013. [Acceptance Rate: 42%]
- eCrime '13 Sadia Afroz, Vaibhav Garg, Damon McCoy, Rachel Greenstadt. Honor Among Thieves: A Common's Analysis of Cybercrime Economics. APWG eCrime Researchers Summit. San Francisco, CA, 2013. [Acceptance Rate: 42%]
- IMC '13 Sarah Meiklejohn, Marjori Pomarole, Grant Jordan, Kirill Levchenko, Damon McCoy, Geoffrey M. Voelker, and Stefan Savage. A Fistful of Bitcoins: Characterizing Payments Among Men with No Names. Proceedings of the ACM Internet Measurement Conference 2013. Barcelona, Spain. [Acceptance Rate: 19%]
- Security '13 Kurt Thomas, Damon McCoy, Chris Grier, Alek Kolcz, and Vern Paxson. Trafficking Fraudulent Accounts: The Role of the Underground Market in Twitter Spam and Abuse. Proceedings of the USENIX Security Symposium, Washington D.C., August 2013. [Acceptance Rate: 16%]
- CCS '12 Damon McCoy, Hitesh Dharmdasani, Christian Kreibich, Geoffrey M. Voelker and Stefan Savage. Priceless: The Role of Payments in Abuse-advertised Goods. Proceedings of the ACM Conference on Computer and Communications Security, Raleigh, NC, October 2012. [Acceptance Rate: 19%]
- CCS '12 Chris Grier, Kurt Thomas, Lucas Ballard, Juan Caballero, Neha Chachra, Christian J. Dietrich, Kirill Levchenko, Panayiotis Mavrommatis, Damon McCoy, Antonio Nappa, Andreas Pitsillidis, Niels Provos, Zubair Rafique, Moheeb Abu Rajab, Christian Rossow, Vern Paxson, Stefan Savage, and Geoffrey M. Voelker. Manufacturing Compromise: The Emergence of Exploit-as-a-Service. Proceedings of the ACM Conference on Computer and Communications Security, Raleigh, NC, October 2012. [Acceptance Rate: 19%]
- Security '12 Damon McCoy, Andreas Pitsillidis, Grant Jordan, Nicholas Weaver, Christian Kreibich, Brian Krebs, Geoffrey M. Voelker, Stefan Savage, and Kirill Levchenko. PharmaLeaks: Understanding the Business of Online Pharmaceutical Affiliate Programs. Proceedings of the USENIX Security Symposium, Bellevue, WA, August 2012. [Acceptance Rate: 19%]
- IMC '11 Marti Motoyama, Damon McCoy, Stefan Savage, and Geoffrey M. Voelker. An Analysis of Underground Forums. Proceedings of the ACM Internet Measurement Conference, Berlin, Germany, November 2011. [Acceptance Rate: 25%]
- Security '11 Stephen Checkoway, Damon McCoy, Danny Anderson, Brian Kantor, Hovav Shacham, Stefan Savage, Karl Koscher, Alexei Czeskis, Franziska Roesner, Tadayoshi Kohno. Comprehensive Experimental Analysis of Automototive Attack Surfaces. Proceedings of the USENIX Security Symposium, San Francisco, CA, August 2011. [Acceptance Rate: 16%]
- Security '11 Marti Motoyama, Damon McCoy, Kirill Levchenko, Geoffrey M. Voelker, Stefan Savage. Dirty Jobs: The Role of Freelance Labor in Web Service Abuse. Proceedings of the USENIX Security Symposium, San Francisco, CA, August 2011. [Acceptance Rate: 16%]
- Security '11 Chris Kanich, Nicholas Weaver, Damon McCoy, Tristan Halvorson, Christian Kreibich, Kirill Levchenko, Vern Paxson, Geoffrey M. Voelker, Stefan Savage. Show Me the Money: Characterizing Spam-advertised Revenue. Proceedings of the USENIX Security Symposium, San Francisco, CA, August 2011. [Acceptance Rate: 16%]

- PETS '11 Mashael AlSabah, Kevin Bauer, Ian Goldberg, Dirk Grunwald, Damon McCoy, Stefan Savage, Geoffrey M. Voelker. DefenestraTor: Throwing out Windows in Tor. Privacy Enhancing Technologies Symposium, Waterloo, Canada, July 2011. [Acceptance Rate: 25%]
- Oakland '11 Kirill Levchenko, Neha Chachra, Brandon Enright, Mark Felegyhazi, Chris Grier, Tristan Halvorson, Chris Kanich, Christian Kreibich, He Liu, Damon McCoy, Andreas Pitsillidis, Nicholas Weaver, Vern Paxson, Geoffrey M. Voelker, Stefan Savage. Click Trajectories: End-to-End Analysis of the Spam Value Chain. Proceedings of the IEEE Symposium and Security and Privacy, Oakland, CA, May 2011. [Acceptance Rate: 11%]
- FC '11 Damon McCoy, Jose Andre Morales, Kirill Levchenko. Proximax: A Measurement Based System for Proxies Dissemination. Financial Cryptography and Data Security, St. Lucia, February 2011. [Acceptance Rate: 35%]
- Globecom '10 Harold Gonzales, Kevin Bauer, Janne Lindqvist, Damon McCoy, Douglas Sicker. Practical Defenses for Evil Twin Attacks in 802.11. IEEE Globecom Communications and Information Security Symposium, Miami, FL, December 2010. [Acceptance Rate: 36%]
- Security '10 Marti Motoyama, Kirill Levchenko, Chris Kanich, Damon McCoy, Geoffrey M. Voelker, Stefan Savage. Re: CAPTCHAs – Understanding CAPTCHA Solving from an Economic Context. Proceedings of the USENIX Security Symposium, Washington, D.C., August 2010. [Acceptance Rate: 16%]
- Oakland '10 Karl Koscher, Alexei Czeskis, Franziska Roesner, Shwetak Patel, Tadayoshi Kohno, Stephen Checkoway, Damon McCoy, Brian Kantor, Danny Anderson, Hovav Shacham, Stefan Savage. Experimental Security Analysis of a Modern Automobile. Proceedings of the IEEE Symposium and Security and Privacy, Oakland, CA, May 2010. [Acceptance Rate: 12%]
- Globecom '09 Kevin Bauer, Damon McCoy, Eric Anderson, Markus Breitenbach, Greg Grudic, Dirk Grunwald, Douglas Sicker. The Directional Attack on Wireless Localization - or - How to Spoof your Location with a Tin Can. Proceedings of the IEEE Globecom Communications and Information Security Symposium , Honolulu, HI, USA, November, 2009. [Acceptance Rate: 35%]
- PETS '09 Kevin Bauer, Damon McCoy, Ben Greenstein, Dirk Grunwald, Douglas Sicker. Physical Layer Attacks on Unlinkability in Wireless LANs. Proceedings of the 9th Privacy Enhancing Technologies Symposium (PETS 2009) , Seattle, WA, USA, August, 2009. [Acceptance Rate: 29%]
- MobiSys '09 Jeffrey Pang, Ben Greenstein, Michael Kaminsky, Damon McCoy, Srinivasan Seshan. Wifi-Reports: Improving Wireless Network Selection with Collaboration. MobiSys '09: 7th International Conference on Mobile Systems, Applications, and Services. Krakow, Poland, 2009. [Acceptance Rate: 20%]
- PETS '08 Damon McCoy, Kevin Bauer, Dirk Grunwald, Tadayoshi Kohno, Douglas Sicker. Shining Light in Dark Places: Understanding the Tor Network. Proceedings of the 8th Privacy Enhancing Technologies Symposium (PETS 2008) , Leuven, Belgium, July, 2008. [Acceptance Rate: 26%]

- MobiSys '08 Ben Greenstein, Damon McCoy, Jeffrey Pang, Tadayoshi Kohno, Srinivasan Seshan, David Wetherall. Improving Wireless Privacy with an Identifier-Free Link Layer Protocol. MobiSys '08: 6th International Conference on Mobile Systems, Application, and Services , Breckenridge, CO, June, 2008. [Acceptance Rate: 18%]
- Security '06 Jason Franklin, Damon McCoy, Parisa Tabriz, Vicentiu Neagoie, Jamie Van Randwyk, Douglas Sicker. Passive Data Link Layer 802.11 Wireless Device Driver Fingerprinting. Proceedings of the 15th USENIX Security Symposium , Vancouver, BC, Canada, August, 2006. [Acceptance Rate: 13%]

Refereed Workshop Publication

- WOOT '16 Sahar Mazloom, Mohammad Rezaeirad, Aaron Hunter and Damon McCoy. A Security Analysis of an In Vehicle Infotainment and App Platform. 10th USENIX Workshop on Offensive Technologies (WOOT 16), Austin, TX, August 2015.
- BITCOIN '16 Khaled Baqer, Danny Yuxing Huang, Damon McCoy and Nicholas Weaver. Stressing Out: Bitcoin “Stress Testing”. Workshop on Bitcoin and Blockchain Research (BITCOIN), Barbados, February 2016.
- WOOT '15 Sean Palka and Damon McCoy. Fuzzing E-mail Filters with Generative Grammars and N-Gram Analysis. 9th USENIX Workshop on Offensive Technologies (WOOT 15), Washington, D.C., August 2015.
- WEIS '15 Kurt Thomas, Danny Huang, David Wang, Elie Bursztein, Chris Grier, Thomas J. Holt, Christopher Kruegel, Damon McCoy, Stefan Savage, Giovanni Vigna. Framing Dependencies Introduced by Underground Commoditization. Workshop on the Economics of Information Security, Amsterdam, NL, June 2015.
- SecTest '15 Sean Palka and Damon McCoy. Dynamic Phishing Content Using Generative Grammars. Proceedings of the IEEE Workshop on Security Testing, Graz, Austria, April 2015.
- WEIS '14 Neha Chachra, Damon McCoy, Stefan Savage, and Geoffrey M. Voelker. Empirically Characterizing Domain Abuse and the Revenue Impact of Blacklisting. Proceedings of the Workshop on the Economics of Information Security (WEIS), State College, PA, June 2014.
- IWCC '14 Hamed Sarvari, Ehab Abozinadah, Alex Mbaziira, and Damon McCoy. Constructing and Analyzing Criminal Networks. Proceedings of the IEEE International Workshop on Cyber Crime (IWCC 2014), San Jose, CA, August 2014
- CSET '13 Christopher E. Everett and Damon McCoy. OCTANE (Open Car Testbed and Network Experiments): Bringing Cyber-Physical Security Research to Researchers and Students. Proceedings of the Workshop on Cyber Security Experimentation and Test, Washington D.C., August 2013.
- LEET '13 Jason W. Clark and Damon McCoy. There Are No Free iPads: An Analysis of Survey Scams as a Business. Proceedings of the USENIX Workshop on Large-Scale Exploits and Emergent Threats, Washington D.C., August 2013.
- LEET '13 Mohammad Karami and Damon McCoy. Understanding the Emerging Threat of DDoS-as-a-Service. Proceedings of the USENIX Workshop on Large-Scale Exploits and Emergent Threats, Washington D.C., August 2013.

- CSET '11 Chris Kanich, Neha Chachra, Damon McCoy, Chris Grier, David Wang, Marti Motoyama, Kirill Levchenko, Stefan Savage, Geoffrey M. Veolker. Proceedings of Workshop on Cyber Security Experimentation and Test (CSET) San Francisco, CA, August 2011.
- CSET '11 Kevin Bauer, Micah Sherr, Damon McCoy, Dirk Grunwald. ExperimenTor: A Testbed for Safe and Realistic Tor Experimentation. To appear at 4th USENIX Workshop on Cyber Security Experimentation and Test (CSET) San Francisco, CA, August 2011.
- WIFS '09 Kevin Bauer, Damon McCoy, Dirk Grunwald, Douglas Sicker. BitStalker: Accurately and Efficiently Monitoring BitTorrent Traffic. Proceedings of the 1st IEEE Workshop on Information Forensics and Security , London, United Kingdom, December, 2009.
- WIDA '08 Kevin Bauer, Harold Gonzales, Damon McCoy. Proceedings of 1st IEEE International Workshop on Information and Data Assurance (WIDA 2008) in conjunction with the 27th IEEE International Performance Computing and Communications Conference (IPCCC 2008) , Austin, TX, USA, December, 2008.
- AIPACa '08 Kevin Bauer, Damon McCoy, Dirk Grunwald, Douglas Sicker. BitBlender: Light-Weight Anonymity for BitTorrent. Proceedings of the Workshop on Applications of Private and Anonymous Communications (AIPACa 2008) in conjunction with SecureComm 2008 , Istanbul, Turkey, September, 2008.
- HotNets '07 Jeffrey Pang, Ben Greenstein, Damon McCoy, Srinivasan Seshan, David Wetherall. Tryst: The Case for Confidential Service Discovery. HotNets VI: The Sixth Workshop on Hot Topics in Networks , Atlanta, GA, USA, October, 2007.
- WPES '07 Kevin Bauer, Damon McCoy, Dirk Grunwald, Tadayoshi Kohno, Douglas Sicker. Low-Resource Routing Attacks Against Tor. Proceedings of the Workshop on Privacy in the Electronic Society (WPES 2007) , Alexandria, VA, USA, October, 2007.
- SECON '07 Damon McCoy, Douglas Sicker, Dirk Grunwald. A Mechanism for Detecting and Responding to Misbehaving Nodes in Wireless Networks. IEEE SDR Workshop, 2007.

Teaching

NYU CS-GY 6823/CS-UY3933: Network Security (Spring 2016) Instructor Rating: 4.8/5
 NYU CS-GY 6823/CS-UY3933: Network Security (Fall 2015) Instructor Rating: 4.6/5
 GMU CS 468: Secure Programming and Systems (Spring 2014) Instructor Rating: 4.4/5
 GMU ISA 656: Network Security (Fall 2013) Instructor Rating: 4.6/5
 GMU ISA 656: Network Security (Spring 2013) Instructor Rating: 4.7/5
 GMU ISA 797/CS 795 Cyber Crime (Fall 2012) Instructor Rating: 4.7/5
 GMU ISA 656: Network Security (Spring 2012) Instructor Rating: 4.4/5
 Minority Engineering Summer Bridge Program, Introduction to Computer Science, University of Colorado (Summer 1996)

Selected Talks

- UTulsa Framing Dependencies Introduced by Underground Commoditization, University of Tulsa Invited Speaker, 2016
- Princeton Framing Dependencies Introduced by Underground Commoditization, Center for Information Technology Policy (CITP) Luncheon Speaker Series, 2016

- Google The Case for Deception, Google Tech Talk, 2016
- Qualcomm The Case for Deception, Qualcomm Invited Speaker, 2016
- Facebook Framing Dependencies Introduced by Underground Commoditization, Beers and Breakage, 2016
- FS-ISAC Framing Dependencies Introduced by Underground Commoditization, FBI - Financial - Information Sharing and Analysis Centers, 2016
- ENIGMA Bullet-proof Credit Card Processing, USENIX Enigma Conference, 2016
- NAAG Drug Purchases on the Dark Web Panel, National Association of Attorneys General Eastern Meeting, 2015
- VISA Understanding and Undermining the Business of Cybercrime, Visa Cybersecurity Awareness, 2014
- SXSW An Inside Look at How the Auto Industry is Safeguarding Connected Cars, Panel, SXSW Connected Car Conference, 2014
- SRI Experiences with Automotive Security: Vulnerabilities, Causes and Challenges, Cybersecurity for Government Vehicles Workshop, 2014
- NSF CPS Diversity in CPS. Panel, NSF Cyber-Physical Systems PI Meeting, 2013
- GOOGLE Investigating the Underground in the Name of Science. Google Tech Talk, 2013
- LEET Understanding the Emerging Threat of DDoS-as-a-Service. Conference Talk, USENIX Workshop on Large-Scale Exploits and Emergent Threats, 2013
- CSET Conducting Research Using Data of Questionable Provenance, Panel, Workshop on Cyber Security Experimentation and Test, 2013
- UMD Tracing Money Flows in Bitcoin. Syschat talk, University of Maryland, 2013
- UMD Exploring the Underground Economy. Syschat talk, University of Maryland, 2013
- DCAPS Tracing Money Flows in Bitcoin. D.C. Anonymity and Privacy Seminar, 2013
- DCAPS Stylometry and Underground Markets. D.C. Anonymity and Privacy Seminar, 2012
- DCW Manufacturing Compromise: The Emergence of Exploit-as-a-Service. ISC/CAIDA Data Collaboration Workshop, 2012
- SAFEMEDS Payment Processing and Unlicensed Online Pharmacies. Partnership for Safe Medicines Interchange 2012
- CCS Priceless: The Role of Payments in Abuse-advertised Goods. Conference Talk, ACM Conference on Computer and Communications Security, 2012
- SECURITY PharmaLeaks: Understanding the Business of Online Pharmaceutical Affiliate Programs. Conference Talk, USENIX Security Symposium, 2012
- DCAPS Proximax: A Measurement Based System for Proxies Dissemination. D.C. Anonymity and Privacy Seminar, 2012
- IMC An Analysis of Underground Forums. Conference Talk, ACM Internet Measurement Conference, 2011
- PETS The Ethics of Research on Tor Users. Panel, Privacy Enhancing Technologies Symposium, 2011

- HOTPETS Using Wireless Physical Layer Information to Construct Implicit Identifiers. HotPETS, 2008
- TOORCON BitBlender: Light-Weight Anonymity for BitTorrent. Toorcon, 2007
- DEFCON Zulu: A Command Line Wireless Frame Injector. DefCon, 2007
- SECURITY Passive Data Link Layer 802.11 Wireless Device Driver Fingerprinting. Conference Talk, USENIX Security Symposium, 2006

Service

Program Committee Co-Chairs

- PoPETS De Gruyter Open Proceedings on Privacy Enhancing Technologies. 2016,2017
- HotSec USENIX Hot Security Topics Workshop, Co-located with USENIX Security Symposium. 2016
- eCrime IEEE Symposium on Electronic Crime Research. 2016, 2017

Program Committees

- ENIGMA USENIX Enigma Conference. 2017
- WWW ACM International World Wide Web Conference. 2016
- WEIS Workshop on the Economics of Information Security. 2016, 2017
- eCrime IEEE Symposium on Electronic Crime Research. 2014
- SECURITY USENIX Security Symposium. 2014, 2015, 2016, 2017
- ACSAC Annual Computer Security Applications Conference. 2013,2014,2015
- RAID The International Symposium on Research in Attacks, Intrusions and Defenses. 2013,2014
- CSET USENIX Workshop on Cyber Security Experimentation and Test. 2012, 2013
- ICDCS IEEE International Conference on Distributed Computing Systems. 2012, 2015
- PETS Privacy Enhancing Technologies Symposium. 2011, 2012, 2013, 2015
- MCCS ACM Workshop on Mobile Cloud Computing and Services. 2011

General Service

- NYU PhD admission committee, 2015,2016
- SECURITY Invited talks committee, USENIX Security, 2014,2015
- NSF General Chair, NSF Cybersecurity Ideas Lab, 2014
- TAPIA Travel scholarship committee, ACM Richard Tapia Celebration of Diversity in Computing, 2010,2012
- MobiSys General Co-Chair, ACM MobiSys Ph.D. Forum Workshop, 2010
- NSF Panelist for a number of NSF funding programs.

Awards

- 2016 Junior Faculty Google Security Privacy and Anti-abuse Applied Reward. (\$50,000)
- 2015 Best Practical Paper, IEEE Security and Privacy

- 2013 Best Paper, IEEE APWG eCrime Researchers Summit
- 2012 Google Research Award (\$75,000)
- 2009,2010 NSF/CRA Computer Innovation Fellow (\$250,000 award)
- 2009 Best Presentation, ACM MobiSys PhD Forums Workshop
- 2009 ACM Tapia Celebration of Diversity travel scholarship
- 2008 Best Paper, ACM Mobisys
- 2008 American Indian Science and Engineering Society (AISES) Google travel scholarship
- 1995 - 1999 Minority Engineering Program Scholarship, University of Colorado, Boulder

Memberships

ACM, American Indian Science & Engineering Society (AISES), Cherokee Nation, USENIX

References

Stefan Savage

Professor

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Geoffrey M. Voelker

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Vern Paxson

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