

# Christo Wilson

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## Highlights

2017–Present **Director of the BS in Cybersecurity**, *College of Computer and Information Science, Northeastern University, Boston, MA*

2012–Present **Assistant Professor**, *College of Computer and Information Science, Northeastern University, Boston, MA*

2008–2012 **PhD in Computer Science**, *University of California, Santa Barbara*

## Selected Awards

2015 **Best Teacher Award**, *College of Computer and Information Science, Northeastern University*

2011 **Best Paper: Honorable Mention Award**, *ACM SIGCOMM*

## Selected Recent Peer Reviewed Publications

2017 Hannak, Aniko, Claudia Wagner, David Garcia, Alan Mislove, Markus Strohmaier, and Christo Wilson. "Bias in Online Freelance Marketplaces: Evidence from TaskRabbit and Fiverr". *CSCW*. 2017.

2017 Larisch, James, David Choffnes, Dave Levin, Bruce M. Maggs, Alan Mislove, and Christo Wilson. "CRLite: a Scalable System for Pushing all TLS Revocations to All Browsers". *IEEE S&P*. 2017.

2016 Bashir, Muhammad Ahmad, Sajjad Arshad, William Robertson, and Christo Wilson. "Tracing Information Flows Between Ad Exchanges Using Retargeted Ads". *USENIX Security*. 2016.

2016 Chen, Le, Alan Mislove, and Christo Wilson. "An Empirical Analysis of Algorithmic Pricing on Amazon Marketplace". *WWW Conference*. 2016.

2015 Chen, Le, Alan Mislove, and Christo Wilson. "Peeking Beneath the Hood of Uber". *IMC*. 2015.

2015 Liu, Yabing, Will Tome, Liang Zhang, David Choffnes, Dave Levin, Bruce Maggs, Alan Mislove, Aaron Schulman, and Christo Wilson. "On SSL Certificate Revocation: The Race to the Bottom in Securing the Web's PKI". *IMC*. 2015.

2014 Hannak, Aniko, Gary Soeller, David Lazer, Alan Mislove, and Christo Wilson. "Measuring Price Discrimination and Steering on E-commerce Web Sites". *IMC*. 2014.

2014 Zhang, Liang, David Choffnes, Tudor Dumitras, Dave Levin, Alan Mislove, Aaron Schulman, and Christo Wilson. "Analysis of SSL certificate reissues and revocations in the wake of Heartbleed". *IMC*. 2014.

2013 Hannak, Aniko, Piotr Sapiezynski, Arash Molavi Kakhki, Balachander Krishnamurthy, David Lazer, Alan Mislove, and Christo Wilson. "Measuring Personalization of Web Search". *WWW Conference*. 2013.

## Funding – National Science Foundation

2016–2021 **CAREER: Towards Methodologies and Tools for Conducting Algorithm Audits**, *PI*, IIS-1553088, \$535K total

2016–2020 **TWC: Medium: Collaborative: Measuring and Improving the Management of Today's PKI**, *Co-PI with Alan Mislove, David Choffnes, Dave Levin (University of Maryland), and Tudor Dumitras (University of Maryland)*, CNS-1563320, \$599K total

2014–2018 **CHS: Medium: Towards Transparency of Personalization on the Web**, *PI with Alan Mislove and David Lazer*, IIS-1408345, \$727K total

2013–2016 **CSR: Small: Towards Confederated Web-Based Services**, *Co-PI with Alan Mislove*, CNS-1319019, \$499K total

## Selected Program Committees

2014–2017 International Conference on Weblogs and Social Media (ICWSM)

2017 International Conference on Web Search and Data Mining (WSDM)

2015–2016 Internet Measurement Conference (IMC)

2016 International World Wide Web Conference (WWW), *Crowdsourcing and Social Media Track*, Co-track Chair

2013–2015 International World Wide Web Conference (WWW), *Security and Privacy Track*

2013 International World Wide Web Conference (WWW), *Social Networks Track*

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## Education

- 2008–2012 **PhD in Computer Science**, *University of California, Santa Barbara*  
Thesis: *Battling Spam and Sybils on the Social Web* advised by Ben Y. Zhao
- 2006–2007 **Masters in Computer Science**, *University of California, Santa Barbara*
- 2002–2006 **BS in Creative Studies (CS Emphasis)**, *University of California, Santa Barbara*  
Graduated with Highest Honors

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## Experience

- 2017–Present **Director of the BS in Cybersecurity**, *College of Computer and Information Science, Northeastern University*, Boston, MA
- 2012–Present **Assistant Professor**, *College of Computer and Information Science, Northeastern University*, Boston, MA
- 2011 **Research Internship**, *Microsoft Research*, Redmond, WA  
Mentor: Cheng Huang
- 2010 **Research Internship**, *Microsoft Research*, Cambridge, UK  
Mentor: Thomas Karagiannis

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## Honors and Awards

- 2015 **Best Teacher Award**, *College of Computer and Information Science, Northeastern University*
- 2012 **Outstanding Dissertation Award**, *UCSB*
- 2011 **Best Paper: Honorable Mention Award**, *ACM SIGCOMM*
- 2010–2011 **Dean's Fellowship**, *UCSB*
- 2008–2009 **Distinguished Graduate Student Research Fellowship**, *UCSB*

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## Peer Reviewed Conference and Workshop Publications

- 2017 Chung, Taejoong, Roland van Rijswijk-Deij, Bala Chandrasekaran, David Choffnes, Dave Levin, Bruce M. Maggs, Alan Mislove, and Christo Wilson. "A Longitudinal, End-to-End View of the DNSSEC Ecosystem". In: *USENIX Security Symposium*. 2017.
- 2017 Hannak, Aniko, Claudia Wagner, David Garcia, Alan Mislove, Markus Strohmaier, and Christo Wilson. "Bias in Online Freelance Marketplaces: Evidence from TaskRabbit and Fiverr". In: *ACM conference on Computer Supported Cooperative Work*. 2017.
- 2017 Larisch, James, David Choffnes, Dave Levin, Bruce M. Maggs, Alan Mislove, and Christo Wilson. "CRLite: a Scalable System for Pushing all TLS Revocations to All Browsers". In: *IEEE Symposium on Security and Privacy*. 2017.
- 2017 Lauinger, Tobias, Abdelberi Chaabane, Sajjad Arshad, William Robertson, Christo Wilson, and Engin Kirda. "Thou Shalt Not Depend on Me: Analysing the Use of Outdated JavaScript Libraries on the Web". In: *Network and Distributed System Security Symposium*. 2017.

- 2017 Li, Zhenhua, Weiwei Wang, Christo Wilson, Jian Chen, Chen Qian, Taeho Jung, Lan Zhang, Kebin Liu, Xiangyang Li, and Yunhao Liu. "FBS-Radar: Uncovering Fake Base Stations at Scale in the Wild". In: *Network and Distributed System Security Symposium*. 2017.
- 2017 Sapiezynski, Piotr, Valentin Kassarnig, Christo Wilson, Sune Lehmann, and Alan Mislove. "Academic performance prediction in a gender-imbalanced environment". In: *FATREC Workshop on Responsible Recommendation*. 2017.
- 2016 Bashir, Muhammad Ahmad, Sajjad Arshad, William Robertson, and Christo Wilson. "Tracing Information Flows Between Ad Exchanges Using Retargeted Ads". In: *USENIX Security Symposium*. 2016.
- 2016 Bashir, Muhammad Ahmad, Sajjad Arshad, and Christo Wilson. "Recommended for You: A First Look at Content Recommendation Networks". In: *ACM Internet Measurement Conference*. 2016.
- 2016 Cangialosi, Frank, Taejoong Chung, Dave Choffnes, Dave Levin, Bruce Maggs, Alan Mislove, and Christo Wilson. "Measurement and Analysis of Private Key Sharing in the HTTPS Ecosystem". In: *ACM Conference on Computer and Communications Security*. 2016.
- 2016 Chen, Le, Alan Mislove, and Christo Wilson. "An Empirical Analysis of Algorithmic Pricing on Amazon Marketplace". In: *International World Wide Web Conference*. Montreal, Quebec, Canada. 2016.
- 2016 Chung, Taejoong, Yabing Liu, Dave Choffnes, Dave Levin, Bruce Maggs, Alan Mislove, and Christo Wilson. "Measuring and Applying Invalid SSL Certificates: The Silent Majority". In: *ACM Internet Measurement Conference*. 2016.
- 2016 Leung, Christophe, Jingjing Ren, David Choffnes, and Christo Wilson. "Should You Use the App for That? Comparing the Privacy Implications of Web- and App-based Online Services". In: *ACM Internet Measurement Conference*. 2016.
- 2016 Li, Zhenhua, Weiwei Wang, Tianyin Xu, Xin Zhong, Xiang-Yang Li, Yunhao Liu, Christo Wilson, and Ben Y. Zhao. "Exploring Cross-Application Cellular Traffic Optimization with Baidu TrafficGuard". In: *Symposium on Networked System Design and Implementation*. Santa Clara, CA. 2016.
- 2016 Soeller, Gary, Karrie Karahalios, Christian Sandvig, and Christo Wilson. "MapWatch: Detecting and Monitoring International Border Personalization on Online Maps". In: *International World Wide Web Conference*. Montreal, Quebec, Canada. 2016.
- 2015 Chen, Le, Alan Mislove, and Christo Wilson. "Peeking Beneath the Hood of Uber". In: *ACM Internet Measurement Conference*. Tokyo, Japan. 2015.

- 2015 Kliman-Silver, Chloe, Aniko Hannak, Christo Wilson, and Alan Mislove. "It's Not What You Search For, It's Where You Search From: The Impact of Geolocation on Web Search Personalization". In: *ACM Internet Measurement Conference*. Tokyo, Japan. 2015.
- 2015 Li, Zhenhua, Christo Wilson, Tianyin Xu, Yao Liu, Zhen Lu, and Yinlong Wang. "Offline Downloading in China: A Comparative Study". In: *ACM Internet Measurement Conference*. Tokyo, Japan. 2015.
- 2015 Liu, Yabing, Will Tome, Liang Zhang, David Choffnes, Dave Levin, Bruce Maggs, Alan Mislove, Aaron Schulman, and Christo Wilson. "On SSL Certificate Revocation: The Race to the Bottom in Securing the Web's PKI". In: *ACM Internet Measurement Conference*. Tokyo, Japan. 2015.
- 2015 Yang, Xiaofeng, Qian Yang, and Christo Wilson. "Penny for Your Thoughts: Searching for the 50 Cent Party on Sina Weibo". In: *International AAAI Conference on Weblogs and Social Media*. 2015.
- 2015 Yang, Zhi, Jilong Xue, Christo Wilson, Ben Y. Zhao, and Yafei Dai. "Dynamics of User Interactions in Online Social Networks: Forgetting, Reinforcing and Exploring". In: *Conference on Online Social Networks*. Stanford, CA. 2015.
- 2015 Yang, Zhi, Jilong Xue, Christo Wilson, Ben Y. Zhao, and Yafei Dai. "Uncovering User Interaction Dynamics in Online Social Networks". In: *International AAAI Conference on Weblogs and Social Media*. Oxford, UK. 2015.
- 2014 Hannak, Aniko, Gary Soeller, David Lazer, Alan Mislove, and Christo Wilson. "Measuring Price Discrimination and Steering on E-commerce Web Sites". In: *ACM Internet Measurement Conference*. 2014.
- 2014 Li, Zhenhua, Cheng Jin, Tianyin Xu, Christo Wilson, Yao Liu, Linsong Cheng, Yunhao Liu, Yafei Dai, and Zhi-Li Zhang. "Towards Network-level Efficiency for Cloud Storage Services". In: *ACM Internet Measurement Conference*. 2014.
- 2014 Ottoni, Raphael, Diego de Las Casas, Joao Paulo Pesce, Wagner Meira Jr, Christo Wilson, Alan Mislove, and Virgilio Almeida. "Of Pins and Tweets: Investigating how users behave across image- and text-based social networks". In: *International AAAI Conference on Weblogs and Social Media*. 2014.
- 2014 Zhang, Liang, David Choffnes, Tudor Dumitras, Dave Levin, Alan Mislove, Aaron Schulman, and Christo Wilson. "Analysis of SSL certificate reissues and revocations in the wake of Heartbleed". In: *ACM Internet Measurement Conference*. 2014.
- 2013 Chen, Le, Chi Zhang, and Christo Wilson. "Tweeting Under Pressure: Analyzing Trending Topics and Evolving Word Choice on Sina Weibo". In: *Conference on Online Social Networks*. 2013.

- 2013 Hannak, Aniko, Piotr Sapiezynski, Arash Molavi Kakhki, Balachander Krishnamurthy, David Lazer, Alan Mislove, and Christo Wilson. "Measuring Personalization of Web Search". In: *International World Wide Web Conference*. 2013.
- 2013 Li, Zhenhua, Christo Wilson, Zhefu Jiang, Yao Liu, Ben Zhao, Cheng Jin, Zhi-Li Zhang, and Yafei Dai. "Efficient Batched Synchronization in Dropbox-like Cloud Storage Services". In: *International Middleware Conference*. 2013.
- 2013 Wang, Gang, Tristan Konolige, Christo Wilson, Xiao Wang, Heather Zheng, and Ben Zhao. "You are How You Click: Clickstream Analysis for Sybil Detection". In: *USENIX Security Symposium*. 2013.
- 2013 Wang, Gang, Manish Mohanlal, Christo Wilson, Xiao Wang, Miriam Metzger, Haitao Zheng, and Ben Y. Zhao. "Social Turing Tests: Crowdsourcing Sybil Detection". In: *Network and Distributed System Security Symposium*. 2013.
- 2012 Metzger, Miriam, Christo Wilson, Rebekah Pure, and Ben Y. Zhao. "Invisible Interactions: What Latent Social Interaction Can Tell Us about Social Relationships in Social Networking Sites". In: *International Communication Association Conference*. 2012.
- 2012 Wang, Gang, Christo Wilson, Xiaohan Zhao, Yibo Zhu, Manish Mohanlal, Haitao Zheng, and Ben Y. Zhao. "Serf and Turf: Crowdturfing for Fun and Profit". In: *International World Wide Web Conference*. 2012.
- 2012 Zhao, Xiaohan, Alessandra Sala, Christo Wilson, Xiao Wang, Sabrina Gaito, Haitao Zheng, and Ben Y. Zhao. "Multi-scale dynamics in a massive online social network". In: *ACM Internet Measurement Conference*. 2012.
- 2011 Sala, Alessandra, Xiaohan Zhao, Christo Wilson, Haitao Zheng, and Ben Y. Zhao. "Sharing Graphs using Differentially Private Graph Models". In: *ACM Internet Measurement Conference*. 2011.
- 2011 Wilson, Christo, Hitesh Ballani, Thomas Karagiannis, and Ant Rowstron. "Better Never than Late: Meeting Deadlines in Datacenter Networks". In: *Conference of the ACM Special Interest Group on Data Communication*. 2011.
- 2011 Wilson, Christo, Troy Steinbauer, Gang Wang, Alessandra Sala, Haitao Zheng, and Ben Y. Zhao. "Privacy, Availability and Economics in the Polaris Mobile Social Network". In: *Workshop on Hot Topics in Mobile Computing Systems and Applications*. 2011.
- 2011 Yang, Zhi, Christo Wilson, Xiao Wang, Tingting Gao, Ben Y. Zhao, and Yafei Dai. "Uncovering Social Network Sybils in the Wild". In: *ACM Internet Measurement Conference*. 2011.
- 2010 Gao, Hongyu, Jun Hu, Christo Wilson, Zhichun Li, Yan Chen, and Ben Y. Zhao. "Detecting and Characterizing Social Spam Campaigns". In: *ACM Internet Measurement Conference*. 2010.

- 2010 Jiang, Jing, Christo Wilson, Xiao Wang, Peng Huang, Wenpeng Sha, Yafei Dai, and Ben Y. Zhao. "Understanding Latent Interactions in Online Social Networks". In: *ACM Internet Measurement Conference*. 2010.
- 2010 Sala, Alessandra, Lili Cao, Christo Wilson, Robert Zablit, Haitao Zheng, and Ben Y. Zhao. "Measurement-calibrated graph models for social network experiments". In: *International World Wide Web Conference*. 2010.
- 2010 Wilson, Christo, Alessandra Sala, Joseph Bonneau, Robert Zablit, and Ben Y. Zhao. "Don't Tread on Me: Moderating Access to OSN Data with SpikeStrip". In: *Workshop on Social Networks*. 2010.
- 2010 Zhao, Xiaohan, Alessandra Sala, Christo Wilson, Haitao Zheng, and Ben Y. Zhao. "Orion: Shortest Path Estimation for Large Social Graphs". In: *Workshop on Social Networks*. 2010.
- 2009 Wilson, Christo, Bryce Boe, Alessandra Sala, Krishna P.N. Puttaswamy, and Ben Y. Zhao. "User Interactions in Social Networks and their Implications". In: *European Conference on Computer Systems*. 2009.
- 2008 Puttaswamy, Krishna P. N., Alessandra Sala, Christo Wilson, and Ben Y. Zhao. "Defending Anonymity against Predecessor Attacks in Bluemoon". In: *International Conference on Network Protocols*. 2008.
- 2008 Stone-Gross, Brett, Christo Wilson, Kevin Almeroth, Elizabeth Belding, Heather Zheng, and Konstantina Papagiannaki. "Malware in IEEE 802.11 Wireless Networks". In: *Passive and Active Measurement Conference*. 2008.
- 2008 Swamynathan, Gayatri, Christo Wilson, Bryce Boe, Kevin Almeroth, and Ben Y. Zhao. "Do social networks improve e-commerce?: a study on social marketplaces". In: *Workshop on Social Networks*. 2008.
- 2007 Wilson, Christo, Chris Coakley, and Ben Y. Zhao. "Fairness Attacks in the Explicit Control Protocol". In: *IEEE International Workshop on Quality of Service*. 2007.

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## Journal Publications

- 2017 Chen, Le and Christo Wilson. "Observing Algorithmic Marketplaces in-the-Wild". In: *ACM SIGecom Exchanges* 15.2, pp. 34–39. 2017.
- 2014 Yang, Zhi, Christo Wilson, Xiao Wang, Tingting Gao, Ben. Y Zhao, and Yafei Dai. "Uncovering Social Network Sybils in the Wild". In: *ACM Transactions on Knowledge Discovery from Data* 8.1, 2:1–2:29. 2014.

- 2013 Jiang, Jing, Christo Wilson, Xiao Wang, Peng Huang, Wenpeng Sha, Yafei Dai, and Ben Y. Zhao. "Understanding Latent Interactions in Online Social Networks". In: *ACM Transactions on the Web* 7.4, 18:1–18:39. 2013.
- 2012 Wilson, Christo, Alessandra Sala, Krishna P.N. Puttaswamy, and Ben Y. Zhao. "Beyond Social Graphs: User Interactions in Online Social Networks and their Implications". In: *ACM Transactions on the Web* 6.4, 17:1–17:31. 2012.

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## Book Chapters

- 2011 Metzger, Miriam, Christo Wilson, Rebekah Pure, and Ben Y. Zhao. "Invisible Interactions: What Latent Social Interaction Can Tell Us about Social Relationships in Social Networking Sites". In: *Networked Sociability and Individualism: Technology for Personal and Professional Relationships*. Ed. by Francesca Comunello. IGI Global Publishing. Chap. 5, pp. 79–102. 2011.

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## Thesis

- 2012 Wilson, Christo. "Battling Spam and Sybils on the Social Web". PhD thesis. University of California, Santa Barbara, Department of Computer Science. 2012.

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## Invited Articles

- 2017 Wilson, Christo and Alan Mislove. *We're suing the federal government to be free to do our research*. The Conversation. 2017. <https://theconversation.com/were-suing-the-federal-government-to-be-free-to-do-our-research-74676>.
- 2014 Wilson, Christo. *Buyer beware, online shopping prices vary user to user*. The Conversation. 2014. <https://theconversation.com/buyer-beware-online-shopping-prices-vary-user-to-user-33439>.
- 2014 Wilson, Christo. *If you use a Mac or an Android, e-commerce sites may be charging you more*. Washington Post. 2014. <http://www.washingtonpost.com/posteverything/wp/2014/11/03/if-you-use-a-mac-or-an-android-e-commerce-sites-may-be-charging-you-more/>.

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## Invited Talks

### Algorithm Auditing, the Internet Filter Bubble, and Online Price Discrimination

- 2017 Keynote at the Perceptual Biases and Social Media Workshop, ICWSM, *Montreal, QC*
- 2016 Tufts ECE/CS Colloquium, Tufts University, *Medford, MA*
- 2016 Talks on Technology Science and Topics in Privacy Series, Harvard University, *Cambridge, MA*
- 2016 nuACM Lecture, Northeastern University, *Boston, MA*
- 2016 SASE Northeast Regional Conference, Northeastern University, *Boston, MA*
- 2015 Guest Lecture at Lyft, *San Francisco, CA*
- 2015 NUterm Lecture, Northeastern University, *Boston, MA*

- 2015 nuACM Lecture, Northeastern University, *Boston, MA*
- 2015 European Commission, *Brussels, Belgium*
- 2013 Peking University, *Beijing, China*
- Defending Against Crowdsourced Threats on the Social Web
- 2013 Tsinghua University, *Beijing, China*
- 2013 Microsoft Research, Asia, *Beijing, China*
- 2013 Indian Institute of Technology (IIT), Delhi, *Delhi, India*
- 2012 Peking University, *Beijing, China*
- 2012 University of California, San Diego, *San Diego, CA*
- 2012 IEEE Computer Communications Workshop (CCW), *Sedona, AZ*
- 2012 Northeastern University, *Boston, MA*

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## Invited Workshops and Panels

- 2017 Privacy Law Scholars Conference, *Berkeley, CA*
- 2017 Workshop on Technology and Consumer Protection, IEEE Security and Privacy, *San Jose, CA*
- 2017 Connected Futures Conference, Northeastern University, *Boston, MA*
- 2017 nuACM Professors Panel, Northeastern University, *Boston, MA*
- 2016 SASE Career Panel, Northeastern University, *Dagstuhl, Germany*
- 2016 Dagstuhl Seminar, "Data, Responsibly" (16291), *Dagstuhl, Germany*
- 2016 NSF CHS Panel, *Washington DC*
- 2016 NSF NeTS Panel, *Washington DC*
- 2016 Privacy Law Scholars Conference, *Washington DC*
- 2016 Health Privacy Summit, *Washington DC*
- 2015 Algorithmic Transparency in the Media, Columbia University, *New York, NY*
- 2015 Buying Services Everywhere in the Single Market, European Commission, *Brussels, Belgium*
- 2014 Northeastern University Empower Campaign Event, *Washington DC*
- 2014 Data Transparency Lab Kickoff Workshop, Telefonica Research, *Barcelona, Spain*
- 2014 Algorithmic Transparency Workshop, Columbia University, *New York, NY*
- 2014 Web Privacy and Transparency Workshop, Princeton University, *Princeton, NJ*
- 2014 AAAI Symposium on Social Hacking and Cognitive Security on the Internet and New Media, Stanford University, *Stanford, CA*
- 2013 NSF NeTS Panel, *Washington DC*

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## Conference Talks

- 2011 Privacy, Availability and Economics in the Polaris Mobile Social Network, *HotMobile*
- 2010 Don't Tread on Me: Moderating Access to OSN Data with SpikeStrip, *WOSN*
- 2009 User Interactions in Social Networks and their Implications, *EUROSYS*
- 2008 Do Social Networks Improve e-Commerce: a Study on Social Marketplaces, *WOSN*
- 2007 Fairness Attacks in the Explicit Control Protocol, *IWQoS*

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## Funding



## National Science Foundation

- 2016–2021 **CAREER: Towards Methodologies and Tools for Conducting Algorithm Audits**, *PI*, IIS-1553088, \$535K total
- 2016–2020 **TWC: Medium: Collaborative: Measuring and Improving the Management of Today's PKI**, *Co-PI with Alan Mislove, David Choffnes, Dave Levin (University of Maryland), and Tudor Dumitras (University of Maryland)*, CNS-1563320, \$599K total
- 2014–2018 **CHS: Medium: Towards Transparency of Personalization on the Web**, *PI with Alan Mislove and David Lazer*, IIS-1408345, \$727K total
- 2013–2016 **CSR: Small: Towards Confederated Web-Based Services**, *Co-PI with Alan Mislove*, CNS-1319019, \$499K total

## Russell Sage Foundation

- 2017–2019 **Inequality in Online Labor Markets**, *PI with Aniko Hannak and David Lazer*, \$114K total

## Northeastern University

- 2017–2018 **TIER 1: Uncovering Strategic Consumer Data Collection and Sharing in Online Markets by Tracing Information Flows**, *PI with Yakov Bart*, \$50K total

## Knight Foundation

- 2015 **Public Access to Pricing Personalization**, *Co-PI with Alan Mislove and David Lazer*, \$30K total

## Data Transparency Lab

- 2015 **Revealing and Controlling Mobile Privacy Leaks**, *Co-PI with Alan Mislove and Dave Choffnes*, Gift, \$50K total

## Intelligent Automation, Inc.

- 2014–2015 **A Trusted Framework for Embedded Systems**, *Co-PI with Engin Kirda and Wil Robertson*, Subcontract on AFRL SBIR contract FA8750-13-C-0112, \$225K total

## Verisign

- 2013 **Quantifying WHOIS Usage and Defending Against Abuse**, *PI with Engin Kirda*, Gift, \$20K total

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## Teaching

- Fall 2017 CS 2500, Fundamentals of Computer Science 1,
- Fall 2016 CS 3700, Network and Distributed Systems, *64 students*
- Spring 2016 CS 3700, Network and Distributed Systems, *69 students*
- Fall 2015 CS 3700, Network and Distributed Systems, *49 students*
- Spring 2015 CS 4740/6740, Network Security, *34 students*
- Fall 2014 CS 5600, Computer Systems, *30 students*
- Spring 2014 CS 5600, Computer Systems, *75 students*
- Fall 2013 IS 4700/CS 5750, Social Computing (Co-taught with Alan Mislove), *12 students*
- Fall 2013 CS 4700/5700, Fundamentals of Computer Networks (Co-taught with Alan Mislove), *66 students*
- Spring 2013 CS 4700/5700, Fundamentals of Computer Networks, *48 students*
- Fall 2012 CS 4700/5700, Fundamentals of Computer Networks, *67 students*

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## Advising

### PhD Students

- 2016–Present Ronald Robertson, *Northeastern University*, (Co-advised with David Lazer)
- 2016–Present Shan Jiang, *Northeastern University*, (Co-advised with Alan Mislove)
- 2014–Present Muhammad Ahmad Bashir, *Northeastern University*
- 2012–2017 Le Chen, *Northeastern University*, (Currently at Facebook)

### PhD Committees

- 2017 Tobias Lauinger, *Northeastern University*
- 2016 Kaan Onarlioglu, *Northeastern University*
- 2016 Piotr Sapiezynski, *Technical University of Denmark*
- 2015 Yabing Liu, *Northeastern University*
- 2014 Anca Hannak, *Northeastern University*

### Masters Students

- 2014 Avanish Pathak, *Northeastern University*
- 2014 Krati Kiyawat, *Northeastern University*

### Masters Committees

- 2014 Susan Collins, *Northeastern University*

### Undergraduate Research Assistants

- 2017 James Larisch, *Northeastern University*, (currently pursuing a PhD at Harvard)
- 2016 Gary Soeller, *Northeastern University*, (currently pursuing a PhD at UCSD)
- 2016 Christophe Leung, *Northeastern University*, (Co-advised with Dave Choffnes)
- 2014 Chloe Kliman-Silver, *Brown University*, (Co-advised with Alan Mislove)

### Interns

- 2016 Priyam Tejaswin, *Vellore Institute of Technology*
- 2014 Ishaan Batta, *Indian Institute of Technology (IIT), Delhi*
- 2013 Raphael Ottoni, *Universidade Federal de Minas Gerais, Brazil*
- 2013 Diego Las Casas, *Universidade Federal de Minas Gerais, Brazil*
- 2013 João Paulo Pesce, *Universidade Federal de Minas Gerais, Brazil*

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## External Service

### Program Committee Member

- 2018 International World Wide Web Conference (WWW), *Security and Privacy Track*
- 2014–2017 International Conference on Weblogs and Social Media (ICWSM)
- 2017 Data Transparency Lab Grants Program
- 2017–2018 International Conference on Web Search and Data Mining (WSDM)
- 2017 Workshop on Technology and Consumer Protection (ConPro)
- 2016–2017 International Conference on Computational Social Science (IC2S2)
- 2016–2017 Workshop on Fairness, Accountability, and Transparency in Machine Learning (FATML)
- 2016 International Workshop on Complex Networks and their Applications
- 2016 International Conference on Social Informatics (SoCIInfo)

- 2016 Workshop on Data and Algorithmic Transparency (DAT)
- 2016 Passive and Active Measurement Conference (PAM)
- 2016 ACM MobiSys workshop on Mobile Data (MOBIDATA)
- 2015–2016 Computational Social Science Winter Symposium (CSSWS)
- 2015–2016 Internet Measurement Conference (IMC)
- 2015 International Conference on Parallel Processing (ICPP)
- 2014–2015 International Conference on Mobile Systems and Pervasive Computing (MobiSPC)
- 2013–2015 International World Wide Web Conference (WWW), *Security and Privacy Track*
- 2013 International World Wide Web Conference (WWW), *Social Networks Track*
- 2013 IEEE INFOCOM
- 2013 ACS/IEEE International Conference on Computer Systems and Applications (AICCSA)
- 2012–2014 International Workshop on Collaborative Big Data (C-Big)

#### Track Chair

- 2016 International World Wide Web Conference (WWW), *Crowdsourcing and Social Media Track*

#### Budget Chair

- 2014 Conference on Online Social Networks (COSN)

#### Poster Committee Chair

- 2014 Conference on Online Social Networks (COSN)

#### Registration Chair

- 2013 Conference on Online Social Networks (COSN)

#### Local Chair

- 2015 Data Transparency Lab Conference, *Boston, MA*

#### Workshop Organizer

- 2015 International Conference on Weblogs and Social Media (ICWSM)

#### Poster Committee Member

- 2014 SIGCOMM

#### Journal Reviewer

ACM TNET, TWEB, TKDD, TISSEC, TIFS, TOIS

IEEE Internet Computing, TKDE, TDSC

Other Journal of Computer Security

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## Internal Service

### Committees

- 2017 **Representative**, CCIS Teaching Award Committee
- 2016–2017 **Representative**, CCIS Program Design Principals Reform Committee
- 2015–2016 CCIS College Evangelist
- 2014–2015 **Representative**, CCIS Hiring Committee
- 2014 **Representative**, CCIS Faculty Merit Committee
- 2012–2014 **Representative**, CCIS PhD Committee

### Faculty Advisor

2014–Present Northeastern chapter of the ACM Club

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## Selected Press Coverage

- 2017 An insecure mess: How flawed JavaScript is turning web into a hacker's playground, *ZDNet*
- 2016 Studies Show Racial and Gender Discrimination Throughout the Gig Economy, *Bloomberg*
- 2016 Is the Gig Economy Rigged?, *MIT Tech Review*
- 2016 How an Old Hacking Law Hampers the Fight Against Discrimination, *The New Yorker*
- 2016 ACLU suing US over law that could let software discriminate by race or gender, *The Guardian*
- 2016 Does this cybercrime law actually keep us from fighting discrimination?, *The Washington Post*
- 2016 First Amendment Suit Claims Anti-Hacking Law Criminalizes Scholarly Research, *The Wall Street Journal*
- 2016 Algorithmic Pricing Is Creating An Arms Race On Amazon's Marketplace, *Fast Company*
- 2016 You're Paying Too Much on Amazon, Study Says, *Motherboard*
- 2015 Here's how you can avoid Uber surge pricing, *Fortune*
- 2015 Uber's Surge Pricing Doesn't Work the Way It's Supposed To, *Money*
- 2015 Uber Surge Price? Research Says Walk A Few Blocks, Wait A Few Minutes, *NPR All Tech Considered*
- 2015 SF Has More Surge Pricing Than NYC...And Other Findings From a New Uber Study, *SF Weekly*
- 2015 How to get around Uber's surge pricing, *New York Post*
- 2015 Uber's Surge Pricing May Not Lead to a Surge in Drivers, *ProPublica*
- 2015 Want to Avoid Uber Surge Pricing on Halloween? This Study Has Tips, *NBC News*
- 2015 Scientists Claim to Have Cracked How to Beat Uber's Surge Pricing Algorithm, *ABC News*
- 2015 Can Uber's surge pricing be gamed?, *The Telegraph*
- 2015 This map shows the Boston boundaries of Uber's surge pricing, *Boston Globe*
- 2015 Report says Uber surge pricing has a twist: some drivers flee, *San Francisco Chronicle*
- 2015 No one in control: The algorithms that run our lives, *New Scientist*
- 2014 Do companies charge online shoppers different prices?, *CBS Evening News*
- 2014 Online shopping yields different prices, results, says Northeastern study, *Boston Globe*
- 2014 Why You Can't Trust You're Getting the Best Deal Online, *Wall Street Journal*
- 2014 Holiday Travel Saving Secrets: Beware of Price Steering, *Good Morning America*
- 2014 How to Beat Online Price Discrimination, *Money*
- 2014 Want the best price online? Good luck with that., *NPR Marketplace*
- 2014 Online Personalization Means Prices Are Tailored To You, Too, *Scientific American*
- 2014 Guess What? You Aren't Always Seeing The Lowest Price, Study Says, *Forbes*
- 2014 How You Shop Online Changes The Prices You See, *Fast Company*
- 2014 How To Beat Online Price Discrimination, *Slashdot*
- 2014 Travelocity apparently saves the best deals for iOS shoppers, *Engadget*
- 2014 Study Will Make You Question Prices on Travel Websites, *Mashable*
- 2012 A dark force, unleashed online, *Boston Globe*
- 2011 Growing Number Of Cyber Skills Invade Online Reviews, *The Consumerist*

- 2011 Million Dollar Crowdturfing Industry Dupes Social Networks, *Slashdot*
- 2011 Hidden Industry Dupes Social Media Users, *MIT Technology Review*
- 2010 Dissecting Facebook Spam, *Wall Street Journal*
- 2010 Scrutinizing Facebook Spam, *MIT Technology Review*

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## References

Available upon request.