

Roxana Geambasu

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Research Interests

Software systems with a focus on security and privacy.

Education

Ph.D. Computer Science, University of Washington, August 2011.

Advisors: Prof. Henry M. Levy, Tadayoshi Kohno, Steven D. Gribble.

Dissertation title: Empowering Users with Control over Cloud and Mobile Data.

M.S. Computer Science, University of Washington, June 2007.

B.S. Computer Science and Engineering, Polytechnic University of Bucharest, Romania, May 2005.

Valedictorian of the 2005 Computer Science and Engineering class.

Positions

Department of Computer Science, Columbia University, New York, NY.

Associate professor, January 2016 to present.

Assistant professor, July 2012 to December 2015.

Instructor, July 2011 to June 2012.

Department of Computer Science and Engineering, University of Washington, Seattle, WA.

Graduate student researcher, September 2005 to August 2011.

Google, Inc., Seattle, WA.

Software engineering intern, June 2008 - August 2008.

Microsoft Research, Mountain View, CA.

Research intern, June 2007 - August 2007.

Department of Computer Science and Engineering, Polytechnic University of Bucharest, Romania.

Undergraduate student researcher, September 2003 to June 2005.

Awards and Honors

Alfred P. Sloan Faculty Fellowship, 2016.

Early Career Award from the University of Washington Center of Academic Excellence, 2015.

Microsoft Faculty Fellowship, 2014.

Popular Science Brilliant 10, 2014.

NSF CAREER Award, 2014.

Elected member of DARPA’s Information Science and Technology (ISAT) study group, 2014-2017.

Google Research Award, 2013.

Honorable mention for the inaugural SIGOPS Dennis M. Ritchie Dissertation Award, 2013.

The William Chan Memorial Dissertation Award, 2011.

Best Paper award at the European Conference on Computer Systems, 2011.

Best Paper award at the USENIX Security Symposium, 2009.

Google Ph.D. Fellowship in Cloud Computing, 2009 – 2011.

Madrona Prize for innovative software, 2010.

Madrona Prize for innovative software, 2009.

Madrona Prize for innovative software, 2008.

Valedictorian of the 2005 Computer Science Class at Polytechnic University of Bucharest, 2005.

Publications

Underline indicates students for whom I am the primary advisor.

Refereed Conference Proceedings

Mathias Lecuyer, Vaggelis Atlidakis, Roxana Geambasu, Daniel Hsu, and Suman Jana. Certified robustness to adversarial examples with differential privacy. In *Proceedings of the IEEE Security and Privacy Symposium (IEEE S&P)*, 2019.

Mathias Lecuyer, Riley Spahn, Roxana Geambasu, Tzu-Kuo Huang, and Siddhartha Sen. Pyramid: Enhancing selectivity in big data protection with count featurization. In *Proceedings of the IEEE Security and Privacy Symposium (IEEE S&P)*, 2017.

Florian Tramer, Vaggelis Atlidakis, Roxana Geambasu, Daniel Hsu, Jean-Pierre Hubaux, Mathias Humbert, Ari Juels, and Huang Lin. Fairtest: Discovering unwarranted associations in data-driven applications. In *Proceedings of the IEEE European Symposium on Security and Privacy (EuroS&P)*, 2017.

Yoshihisa Abe, Roxana Geambasu, Kaustubh Joshi, and Mahadev Satyanarayanan. Urgent virtual machine migration with enlightened post-copy. In *Proceedings of the Conference of Virtual Execution Environments (VEE)*, 2016.

Vaggelis Atlidakis, Jeremy Andrus, Roxana Geambasu, Dimitris Mitropoulos, and Jason Nieh. POSIX abstractions in modern operating systems: The old, the new, and the missing. In *Proceedings of the IEEE European Conference on Computer Systems (EuroSys)*, 2016.

Mathias Lecuyer, Riley Spahn, Yannis Spiliopoulos, Augustin Chaintreau, Roxana Geambasu, and Daniel Hsu. Sunlight: Fine-grained targeting detection at scale with statistical confidence. In *Proceedings of the ACM Conference on Computer and Communications Security (CCS)*, 2015.

Nicolas Viennot, Mathias Lecuyer, Jonathan Bell, Roxana Geambasu, and Jason Nieh. Synapse: New data integration abstractions for agile web application development. In *Proceedings of the ACM European Conference on Computer Systems (EuroSys)*, 2015.

Riley Spahn, Jonathan Bell, Michael Lee, Sravan Bhamidipati, Roxana Geambasu, and Gail Kaiser. Pebbles: Fine-grained data management abstractions for modern operating systems. In *Proceedings of the USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, 2014.

Mathias Lecuyer, Guillaume Ducoffe, Francis Lan, Andrei Papancea, Theofilos Petsios, Riley Spahn, Augustin Chaintreau, and Roxana Geambasu. XRay: Increasing the web's transparency with differential correlation. In *Proceedings of USENIX Security*, 2014.

Yoshihisa Abe, Roxana Geambasu, Kaustubh Joshi, H. Andres Lagar-Cavilla, and Mahadev Satyanarayanan. vTube: Efficient streaming of virtual appliances over last-mile networks. In *Proceedings of the ACM Symposium on Cloud Computing (SoCC)*, 2013.

Yang Tang, Phillip Ames, Sravan Bhamidipati, Ashish Bijlani, Roxana Geambasu, and Nikhil Sarda. CleanOS: Mobile OS abstractions for managing sensitive data. In *Proceedings of the USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, 2012.

Roxana Geambasu, John P. John, Steven D. Gribble, Tadayoshi Kohno, and Henry M. Levy. Keypad: An auditing file system for theft-prone devices. In *Proceedings of the ACM European Conference on Computer Systems (EuroSys)*, 2011 **Award Paper**.

Roxana Geambasu, Amit Levy, Tadayoshi Kohno, Arvind Krishnamurthy, and Henry M. Levy. Comet: An active distributed key/value store. In *Proceedings of the USENIX Symposium on Operating Systems Design and Implementation (OSDI)*, 2010.

Roxana Geambasu, Tadayoshi Kohno, Amit Levy, and Henry M. Levy. Vanish: Increasing data privacy with self-destructing data. In *Proceedings of USENIX Security*, 2009. **Award Paper**.

Roxana Geambasu, Cherie Cheung, Alexander Moshchuk, Steven D. Gribble, and Henry M. Levy. The organization and sharing of web-service objects with menagerie. In *Proceedings of the International World Wide Web Conference (WWW)*, 2008.

Roxana Geambasu, Magdalena Balazinska, Steven D. Gribble, and Henry M. Levy. Homeviews: Peer-to-peer middleware for personal data sharing applications. In *Proceedings of the CM International Conference on Management of Data (SIGMOD)*, 2007.

Invited Magazine Papers

Mathias Lecuyer, Riley Spahn, Roxana Geambasu, Tzu-Kuo Huang, and Siddhartha Sen. Enhancing selectivity in big data. In *IEEE Security and Privacy Magazine*, 2018.

Vaggelis Atlidakis, Jeremy Andrus, Roxana Geambasu, Dimitris Mitropoulos, and Jason Nieh. POSIX has become outdated. In *USENIX ;login: Magazine*, 2016.

Refereed Workshop Papers

Angelos D. Keromytis, Roxana Geambasu, Simha Sethumadhavan, Salvatore J. Stolfo, Junfeng Yang, Azzedine Benameur, Marc Dacier, Matthew Elder, Darrell Kienzle, and Angelos Stavrou. The MEERKATS cloud security architecture. In *Proceedings of the 3rd International Workshop on Security and Privacy in Cloud Computing*, 2012.

Roxana Geambasu, Steven D. Gribble, and Henry M. Levy. Cloudviews: Communal data sharing in public clouds. In *Proceedings of the Workshop on Hot Topics in Cloud Computing (HotCloud)*, 2009.

Roxana Geambasu, John MacCormick, and Andrew Birrell. Experiences with formal specification of fault-tolerant file systems. In *Proceedings of the International Conference on Dependable Systems and Networks (DSN)*, 2008.

Roxana Geambasu, Tanya Bragin, Jaeyeon Jung, and Magdalena Balazinska. On-demand view materialization and indexing for network forensic analysis. In *Proceedings of the International Workshop on Networking Meets Databases (NetDB)*, 2007.

Dissertations

Roxana Geambasu. *Regaining Control over Cloud and Mobile Data*. PhD thesis, University of Washington, 2011.

Funding

Pending

PI for *National Institute of Health (NIH) R01* proposal (\$1,582,440, 2019-2023). “New Methodologies, Abstractions, and Computer Systems for Differentially Private Release of Clinical Models.” PI: Nicholas Tatonetti; senior personnel: Alexandr Andoni and Daniel Hsu.

Senior Personnel for *National Science Foundation (NSF) Expeditions* proposal (\$10,000,000, 2020-2025). “Trustworthy AI.” PI: Jeannette Wing; Co-PIs: Shipra Agrawal and Augustin Chaintreau; there are 12 key personnel.

Senior Personnel on pre-proposal for *NSF Engineering Research Center*. Title: “Advanced Streetscape Sensing, Communications and Computing.” PI: Andrew W Smyth; Co-PIs: Ester Fuchs, Shivendra S Panwar, Paul M Torrens, and Gil Zussman; there are 10 key personnel.

Awarded

PI for *Schmidt Futures* award (2018-2019, \$100,000). “Enabling Small-Data Medical Research with Private Transferrable Knowledge from Big Data.” Co-PIs: Nicholas Tatonetti and Daniel Hsu. Geambasu’s share: \$50,000.

PI for *Columbia Data Sciences Institute Seed Grant* (2018-2020, \$200,000). “Enabling Small-Data Medical Research with Private Transferrable Knowledge from Big Data.” Co-PIs: Nicholas Tatonetti and Daniel Hsu. Geambasu’s share: \$100,000.

PI for *Alfred P. Sloan Fellowship* (2016-2018, \$55,000). “Privacy in a Data-Driven World.” Sole PI.

PI for *NSF Secure and Trustworthy Computing* award (2015-2019, \$1,588,998). “Scalable Web Transparency: New Scientific Building Blocks, Tools, and Measurements to Tame the Data-Driven Web.” Co-PI: Augustin Chaintreau. Geambasu’s share: \$988,998.

PI for *Microsoft Faculty Fellowship* (\$200,000, 2014-no end). Sole PI.

PI for *Microsoft Research* gift (\$15,000, 2014-no end). Sole PI.

PI for *NSF CAREER* award (\$499,999, 2014-2019). “New Operating Systems Abstractions for Responsible Data Management.” Sole PI.

PI for *Google Faculty Fellowship* (\$79,807, 2013-2014). “Promiscuous: Scalable, Consistent Firehose for Data-Driven Web Service Integrations.” Co-PI: Jason Nieh. Geambasu’s share: \$39,903.

PI for *Columbia Provost’s Grant for Junior Faculty* (\$25,000, 2013-2014). “CleanOS: Limiting Sensitive Data Exposure in Mobile Operating Systems.” Sole PI.

PI for *DARPA Mission-Resilient Clouds* contract (\$6,619,270, 2011-2015). “MEERKATS: Maintaining Enterprise Resiliency via Kaleidoscopic Adaptation & Transformation of Software Services.” Co-PIs: Angelos Keromytis (was original PI), Salvatore Stolfo, Simha Sethumadhavan, Junfeng Yang, Matthew Elder, and Angelos Stavrou. Geambasu’s share: \$900,000.

Invited Talks

New York City Women in Data Science (WiDS), “Privacy in a Data-Driven World,” 2018.

Google Faculty Summit, “Selective Data Systems,” 2017.

Hearst Corporation, “Privacy in a Data-Driven World,” 2016.

Harvard University systems seminar, “Privacy in a Data-Driven World,” 2016.

MIT CSAIL systems seminar, “Privacy in a Data-Driven World,” 2016.

New York City Media Lab, “Privacy in a Data-Driven World,” 2016.

Innovation and the Value of Privacy Conference, Columbia Business School, “Privacy in a Data-Driven World,” 2016.

Federal Trade Commission (FTC) PrivacyCon conference, “Web Transparency at Scale,” 2016.

Keynote at the Neural Information Processing Systems (NIPS) workshop on Learning Systems, “Privacy in a Data-Driven World,” 2015.

TwoSigma, “Privacy in a Data-Driven World,” 2015.

Stanford’s computer security seminar, “Privacy in a Data-Driven World,” 2015.

Berkeley’s AMPLab seminar, “Privacy in a Data-Driven World,” 2015.

National Academies Workshop on Privacy for the Intelligence Community. “Increasing Privacy in a Data-Driven World,” 2015.

Federal Trade Commission (FTC), “Transparency Infrastructures for the Data-Driven Web,” 2015. Attendees included one of the FTC Commissioners and her staff.

Workshop on Cloud Programmability co-located with the Microsoft Faculty Summit, “Synapse: A Microservices Architecture for Heterogeneous-Database Web Applications,” 2015.

Microsoft Research NYC, “Increasing Privacy in a Data-Driven World,” 2015.

NSF informational session on Capitol Hill, “Transparency in a Data-Driven World,” 2014. Attendees included members of the Cybersecurity Caucus of the House of Representatives.

Princeton Web Transparency Conference, “Toward a Transparent Web,” 2014.

Keynote at the Diversity Workshop co-located with OSDI, “Toward a Transparent Web,” 2014.

DIMACS Workshop on Secure Cloud Computing, “New Abstractions for Responsible Big-Data Management,” 2014.

Microsoft Faculty Fellowship final competition, “Increasing Privacy in a Data-Driven World,” 2014.

Microsoft Research, “New Abstractions for Responsible Big-Data Management,” 2013.

Cloud Computing Security Forum, part of the IEEE Global Communications Conference (Globecom), “Regaining Control over Mobile and Cloud Data,” 2011.

Invited talk, titled “Regaining Control over Mobile and Cloud Data,” delivered at multiple universities and industrial labs: AT&T Labs NYC, Brown University, Carnegie Mellon University, Columbia University, Cornell University, Duke University, Georgia Institute of Technology, Google, Harvard University, IBM Research, Intel Corporation, Massachusetts Institute of Technology (MIT), Microsoft Research, New York University, Symantec Research Labs, University of California at Los Angeles, University of Southern California, 2011-2012.

“Self-destructing Data and Beyond.” University of British Columbia Systems Colloquium, 2010.

“Vanish: Increasing Data Privacy with Self-destructing Data.” Google Graduate Student Forum, 2010.

Conference and Workshop Organization

Program chair (with Barzan Mozafari) of ACM Symposium on Cloud Computing (SoCC), 2019.

Organizer of hands-on programming workshop for the Annual Engineering Exploration event organized by the Society of Women Engineers for New York City high-school female students, 2014, 2015, 2016, 2019.

Organizer (with Luis Ceze) of ISAT Workshop “The Future of Storage” on identifying break-through technologies on storage and data selectivity, 2016.

Organizer (with Katrina Ligett) of ISAT Workshop “Whither the Data” on understanding complex flows in data ecosystems, 2016.

Chair of Poster Session for USENIX Operating Systems Design and Implementation Conference (OSDI), 2014.

Chair of Poster Session for the European Conference on Computer Systems (EuroSys), 2013.

Educational Activities

Teaching

Advanced Distributed Systems (COMS 6118), Columbia University, Spring 2019.

Enrollment: 8. Course evaluation: in progress. Instructor evaluation: in progress.

Distributed Systems Fundamentals (COMS 4113), Columbia University, Fall 2018.

Enrollment: 118. Course evaluation: 3.7/5. Instructor evaluation: 3.5/5

Advanced Distributed Systems (COMS 6118), Columbia University, Spring 2018.

Enrollment: 10. Course evaluation: 4.0/5. Instructor evaluation: 4.0/5.

Computer Systems for Big Data (W4212), Columbia University, co-instructor, Spring 2018.

Enrollment: 158. Course evaluation: 2.65/5. Instructor evaluation: 3.3/5.

Distributed Systems Fundamentals (COMS 4113), Columbia University, Fall 2017.

Enrollment: 73. Course evaluation: 3.83/5. Instructor evaluation: 3.88/5.

Computer Systems for Big Data (W4212), Columbia University, co-instructor, Spring 2016.

Enrollment: 79. Instructor evaluation: 3.97/5. Course evaluation: 3.8/5.

Advanced Distributed Systems (COMS 6118), Columbia University, Fall 2015.

Enrollment: 14. Course evaluation: 3.6/5. Instructor evaluation: 3.6/5.

Advanced Distributed Systems (COMS 6118), Columbia University, Spring 2015.

Enrollment: 21. Course evaluation: 4.2/5. Instructor evaluation: 4.4/5.

Computer Systems for Big Data (W4212), Columbia University, co-instructor, Spring 2015.

Enrollment: 18. Course evaluation: 3.9/5. Instructor evaluation: 3.9/5.

Distributed Systems Fundamentals (COMS 4113), Columbia University, Fall 2014.

Enrollment: 41. Course evaluation: 3.7/5. Instructor evaluation: 3.7/5.

Cloud and Mobile Challenges Seminar (COMS6998), Columbia University, Spring 2014.

Enrollment: 24. Course evaluation: 3.8/5. Instructor evaluation: 4.2/5.

Distributed Systems Fundamentals (COMS 4113), Columbia University, Fall 2013.

Enrollment: 16. Course evaluation: 4.1/5. Instructor evaluation: 4.0/5.

Cloud and Mobile Challenges Seminar (COMS6998), Columbia University, Spring 2013.

Enrollment: 24. Course evaluation: 3.9/5. Instructor evaluation: 4.3/5.

Distributed Systems Fundamentals (COMS 4113), Columbia University, Fall 2012.

Enrollment: 16. Course evaluation: 4.2/5. Instructor evaluation: 4.2/5.

Cloud and Mobile Challenges Seminar (COMS6998), Columbia University, Fall 2011.

Enrollment: 23. Course evaluation: not found. Instructor evaluation: not found.

Advising

Advising of Ph.D. students

Vaggelis Atlidakis (Columbia University; Fall 2013 to present; co-advised with Jason Nieh).

Brian Goodchild (Columbia University; Fall 2017 to present; co-advised with Ethan Katz-Bassett).

Mathias Lécuyer (Columbia University; Fall 2013 to present; co-advised with Augustin Chaintreau).

Dennis Roelke (Columbia University; Fall 2018 to present; co-advised with Suman Jana).

Riley Spahn (Columbia University; Spring 2013 to present; co-advised with Gail Kaiser).

Dissertation committee memberships

Suphannee Sivakorn, Ph.D. in Computer Science (Columbia University; defended April 2018; primary advisor: Angelos Keromytis).

Christoffer Dall, Ph.D. in Computer Science (Columbia University; defended February 2017; primary advisor: Jason Nieh).

Yuanzhong Xu, Ph.D. in Computer Science (University of Texas at Austin; defended May 2016; primary advisor: Emmett Witchel).

Jonathan Bell, Ph.D. in Computer Science (Columbia University; defended April 2016; primary advisor: Gail Kaiser).

George Argyros, Ph.D. in Computer Science (Columbia University; defended March 2016; primary advisors: Angelos Keromytis and Tal Malkin).

Nicolas Viennot, Ph.D. in Computer Science (Columbia University; defended January 2016; primary advisor: Jason Nieh).

Yoshihisa Abe, Ph.D. in Computer Science (Carnegie Mellon University; defended December 2015; primary advisor Mahadev Satyanarayanan).

Vasileios Kemerlis, Ph.D. in Computer Science (Columbia University; defended August 2015; primary advisor: Angelos Keromytis).

Jeremy Andrus, Ph.D. in Computer Science (Columbia University; defended May 2015; primary advisor: Jason Nieh).

Kangkook Jee, Ph.D. in Computer Science (Columbia University; defended 2015; primary advisor: Angelos Keromytis).

Nathaniel Boggs, Ph.D. in Computer Science (Columbia University; defended 2015; primary advisor: Sal Stolfo).

Binh Vo, Ph.D. in Computer Science (Columbia University; defended 2015; primary advisor: Sal Stolfo).

Heming Cui, Ph.D. in Computer Science (Columbia University; defended 2014; primary advisor: Junfeng Yang).

Marcin Szczodrak, Ph.D. in Computer Science (Columbia University; defended 2014; primary advisor: Luca Carloni).

Jae Woo Lee, Ph.D. in Computer Science (Columbia University; defended 2013; primary advisor: Henning Schultzerinne).

Service

Service to the University

Computer Science Department Service:

Space committee, 2014-present.

Master's Systems Track advisor, 2013-present.

Ph.D. Fellowship committee, 2012-2016.

Faculty Search committee, 2014, 2015, 2016.

SEAS/University Service:

Member of Columbia Data Science Institute (DSI) Cybersecurity Center, 2014-present.

Member of DSI's Systems for Data Science Center, 2018-present.

Facilitator for the Communications, Information, and Cybersecurity panel of the Strategic Discussion Forum, 2015.

Columbia IT facilities committee, 2014, 2015.

Faculty advisor on Columbia's Egleston Scholar mentorship program, 2013.

Conference Program Committees

USENIX Operating Systems Design and Implementation Conference (OSDI), 2018, 2016, 2014, 2012.

ACM Symposium on Operating Systems Principles (SOSP), 2017.

European Conference on Computer Systems (EuroSys), 2019, 2016, 2015, 2013.

USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2019, 2018, 2011.

International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 2016.

ACM Symposium on Cloud Computing (SoCC), 2015, 2013.

ACM Workshop on Hot Topics in Operating Systems (HotOS), 2019, 2017, 2013.

Hot Topics in Mobile Computing (HotMobile), 2016, 2013.

IEEE Security and Privacy (S&P), 2017.

USENIX Security Symposium, 2015, 2013, 2012.

ACM Cloud Computing Security Workshop (CCSW), 2013.

Workshop on Technology and Consumer Protection (co-organized by the FTC), 2018, 2017.

ACM Conference on Fairness, Accountability, and Transparency (FAT*), systems area chair, 2018.

Workshop on Data and Algorithmic Transparency (DAT), 2016.

Grace Hopper Celebration of Women in Computing Workshop (Grace Hopper), 2017.

Funding Proposal Reviewing

NSF Panel for Formal Methods in the Field program, 2017.

NSF Panel for Secure and Trustworthy Computing program, 2014.

NSF Panel for Computer Systems Research, 2012.

Diversity Outreach Activities within the University

"Privacy in a Data-Driven World." Invited speaker at Columbia's NSF IGERT inter-disciplinary course "From Data to Solutions," 2018.

"Testing for Fairness." Invited panelist for the Negotiating Systemic Bias in Teaching event organized by Columbia University Libraries and the TOW Center for Journalism, 2018.

"Privacy in a Data-Driven World." Invited speaker at Columbia's NSF IGERT inter-disciplinary course "From Data to Solutions," 2017.

"Privacy in a Data-Driven World." Invited speaker at Columbia's Emerging Scholar Program, 2017.

"Privacy in a Data-Driven World." Invited speaker at Columbia's Engineering Women's Forum, 2017.

Panelist at the 2016 Global Digital Futures Policy Forum, Columbia School of International and Public Affairs (SIPA). Invited to discuss the potential and pitfalls of an algorithmic society, 2016.

"Privacy in a Data-Driven World." Invited speaker at Columbia's NSF IGERT inter-disciplinary course "From Data to Solutions," 2016.

"Privacy in a Data-Driven World." Invited speaker at joint event organized by the Data Science Institute and Columbia Business School's Leadership and Ethics center, 2016.

Organize hands-on programming workshop for the Annual Engineering Exploration event organized by the Society of Women Engineers for New York City highschool female students, 2014, 2015, planned for 2016. Participants include 23-25 highschool students from all five boroughs of New York City.

"Increasing Privacy in a Data-Driven World." Columbia Womensphere Innovation Summit organized by the Womensphere Foundation and Columbia Graduate Society of Women Engineers, 2015.

"Increasing Privacy in a Data-Driven World." Columbia Undergraduate Scholars Program, 2015.

"Toward a Transparent Web." Talk for Data Science Institute's industrial affiliates program, delivered for Bloomberg, 2014.

"Responsible Big-Data Management." Journalism Security Seminar organized by Columbia's Journalism School, 2013.

Panelist for New York City Girls Computer Science and Engineering Conference, 2012.

"Research and Education at Columbia's CS." Department host talk at Columbia's Engineering Women's Forum, 2012, 2013.

"Cloud Computing: Benefits and Challenges." Expert talk at Columbia Senate Information Technology Committee, 2011.

Media Coverage

The data republic, "To safeguard democracy, the use of data should be made as transparent as possible," The Economist, 2016.

Priya Kumar, "When Was the Last Time You Read a Privacy Policy?" Slate.com, 2016.

Ben Johnson, Codebreaker episode #7 on National Public Radio (NPR) Tech Marketplace, 2016.

Tom Simonite, "Probing the Dark Side of Google's Ad-Targeting System," MIT Technology Review, 2015.

Jim Dwyer, "The Big Bang of Social Networking," The New York Times, 2014.

Steve Lohr, "XRay: A New Tool for Tracking the Use of Personal Data on the Web," The New York Times, 2014.

Leonard Lopate, "Two of 'The Brilliant 10' Scientists," The Leonard Lopate Show on WYNC, New York City's branch of NPR, 2014.

Bob Brown, "5 Cool Cloud Computing Research Projects," Network World, 2009.

John Markoff, "New Technology to Make Digital Data Self-Destruct," The New York Times, 2009.

Martin Kaste, "Digital Data Make For A Really Permanent Record," National Public Radio, The End of Privacy Series, 2009.

David Lee, "This Website Will Self-destruct...", BBC Digital Planet, 2009.

"This Message Will Self-destruct," The Economist, 2009.