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Curriculum Vitae

([PDF version](#))

Education

- Massachusetts Institute of Technology, Cambridge, MA., Ph.D. in Computer Science 2001. *Computational Disclosure Control: Theory and Practice.*
- Massachusetts Institute of Technology, Cambridge, MA., S.M. 1997 in Electrical Engineering and Computer Science. *Sprees, a Finite-State Orthographic Learning System that Recognizes and Generates Phonologically Similar Spellings.* GPA 4.9/5.0. Finalist in MasterWorks.
- Harvard University, Cambridge, MA., ALB 1995 in Computer Science, Cum Laude. *A Coin Toss: the Dialectical Odds aren't always 50/50.* Honors grades in all courses. Completed graduate courses in computer science, mathematics, physics, educational psychology and philosophy. Delivered graduation speech.
- Massachusetts Institute of Technology, Cambridge, MA. 1979 Undergraduate studies in Electrical Engineering and Computer Science.
- Dana Hall Schools, Wellesley, MA. High school diploma 1977. Among other honors, delivered Valedictorian speech.

Academic and Government Positions

- 2020 - Professor of the Practice of Government and Technology, the Harvard Kennedy School and the Harvard Faculty of Arts and Sciences, Department of Government, Harvard University.
- 2012 - 2020. Professor of Government and Technology in Residence, Department of Government, Harvard University.
- 2016 - X.D. and Nancy Yang Faculty Dean of Currier House, Harvard College.
- 2016 - 2018. Commissioner, U.S. Commission on Evidence-Based Policymaking, Appointed by House Minority Leader Nancy Pelosi. Washington, DC.
- 2014 Chief Technology Officer, U.S. Federal Trade Commission.
- 2011 - today. Director and Founder, [Data Privacy Lab](#), Harvard University.
- 2008 - 2012. Visiting Professor, Visiting Scholar, Computer Science, School of Engineering and Applied Science, Harvard University.
- 2009 - 2011. Distinguished Career Professor of Computer Science, Technology and Policy, School of Computer Science, Carnegie Mellon University.
- 2008 - 2011. MLK Visiting Professor, Computer Science (CSAIL), Massachusetts Institute of Technology.
- 2005 - 2009. Associate Professor of Computer Science, Technology and Policy, School of Computer Science, Carnegie Mellon University.
- 2002 - 2004. Assistant Professor of Computer Science, Technology and Policy, School of Computer Science, Carnegie Mellon University.
- 2001 - 2011. Director and Founder, [Data Privacy Lab](#), Carnegie Mellon University.
- 2003 - 2011. Co-Director and co-Founder, PhD Program in Computation, Organizations and Society, School of Computer Science, Carnegie Mellon University.
- 2004, 2006 - 2009. Founder in 2004, Editor-in-Chief from 2006. Journal of Privacy Technology, Institute for Software Research, School of Computer Science, Carnegie Mellon University.
- 2003 - 2006. Director, Privacy Technology Center, Institute for Software Research, School of Computer Science, Carnegie Mellon University.
- 1998 - 2002. Assistant Professor of Computer Science and of Public Policy. Dual appointments: H. John Heinz III School of Public Policy and Management and the Center for Automated Learning and Discovery in the School of Computer Science, Carnegie Mellon University.
- 1991-1996, 1999-2000. Teaching Fellow and Instructor, Computer Science Courses, Faculty of Arts and Science, Harvard University. Year 1999-2000 taught distance courses only, using my ActiveTutors and VirtualLectures technologies.
- 1980-1981. Research Assistant, Artificial Intelligence Lab, Massachusetts Institute of Technology.

Other Academic Affiliations

- 2015 - Editor-in-Chief, [Journal of Technology Science](#).
- 2005 - 2011. Faculty, Quality of Life Technology Center, Carnegie Mellon University and the University of Pittsburgh. Co-Leader of the Person and Society Research Thrust, 2005-2006.
- 2002 - 2011. Faculty, Aladdin Center, School of Computer Science, Carnegie Mellon.
- 2002 - 2011. Faculty, Information Networking Institute, Carnegie Mellon University.
- 2004 - 2011. Faculty, Cylab, Carnegie Mellon University
- 2002 - 2011. Faculty, H. John Heinz III School of Public Policy and Management.
- 1998 - 2011. Faculty Advisory Board, Machine Learning Department, School of Computer Science, Carnegie Mellon University.

Corporate Affiliations

No issued licenses limit my access to these technologies for academic purposes.

- 2016 - 2018. Board of Directors, Consumer Union (Consumer Reports).
- 2013 - 2013. Wugster, LLC. has licenses to some of my technologies and is using these licenses to make the methods and results openly accessible.
- 2003 - [Privacert](#) has licenses to some of my technologies and is using these licenses to make the methods and results openly accessible.
- 2009 - 2013 Hand ID owns patents to some technologies created by 2013 colleagues and me. I maintain some ownership interest and hold an official position.
- 2002-2003. Datanon, LLC had licenses to some of my technologies, which are now available through Privacert, Inc.
- 1998 - 2013. CITC has licenses to some of my technologies. I maintain no ownership interest or hold any official position. I do maintain sufficient involvement to assure my technology is being properly deployed.
- 1981-1991. CESS, Inc., Owner and CEO. Founded and managed a medium-sized computer company that developed customized AI software and provided supporting retail and repair services. Supervised staffs of programmers, repair technicians, and sales representatives.

National and International Committee Appointments (Selected)

- Appointed, Technology Policy Council of the Association for Computing Machinery (ACM) 2019-.
- Appointed Commissioner, U.S. Commission on Evidence-Based Policy-making. House Leader Appointment, 2016-2018. cep.gov
- Appointed, Federal HIT Policy Committee, Privacy and Security Seat, GAO Appointment, 2009-2013.
- Appointed, EPIC Advisory Board, 2007-2013, 2015-.
- Appointed, IEEE-USA Medical Technology Policy Committee, 2003-2009.
- Appointed member, Biomedical Library Research Committee, National Library of Medicine, National Institutes of Health, 1999-2003.
- Patient privacy Rights, Board of Directors, 2011-2013.
- Dana Hall Schools, Board of Directors, 2011-2013.
- Health Record Banking Alliance, Advisory Board, 2011-2013.
- Special appointment to the Board of Directors as "Privacy Consultant", American Psychiatric Association, 2000.
- Health Privacy Project, Working Group, at Georgetown University, 1998.
- Massachusetts State Committee on Healthcare, Medical Record Confidentiality Working Group, 1998.
- National Committee for Quality Assurance, Joint Sessions on Security and Confidentiality of Medical Information, 1998.
- World Wide Web Consortium, Personal Privacy Preferences Working Group, 1996-1997.

Government and Policy References (Selected)

- U.S. Federal Register, August 2009, Health Data Breach Regulation. My work and that of my former student is cited explicitly in supporting commentary. See page 42968, Federal Register. Vol. 175, No., Aug 25, 2009. <http://www.ftc.gov/os/2009/08/R911002hbn.pdf>
- Privacy Commissioner of Canada, Annual Report, 2000. My work is cited explicitly.
- U.S. Federal Register, March and December 2000, Health Insurance Privacy and Portability Act (HIPPA). My work is cited explicitly in supporting commentary on de-identification provisions of the

Privacy Rule of HIPAA.

Publications of **Latanya Sweeney, PhD**

By Type | **Chronological**

Books (including Forthcoming)

1. *In Technology We Trust*.
[Sweeney, L.](#) (This is not an edited volume.)
Forthcoming book publication. 400 pages.
2. *Technology Dialectics: the researcher's guide to technology science*.
[Sweeney, L.](#) (This is not an edited volume.)
Forthcoming book publication. 200 pages.
3. *Computer Guide*.
[Sweeney, L.](#) and Barrett, S. (This is not an edited volume.)
Cambridge: CESS Publishing. 1983. (1425 pages)
dataprivacylab.org/computerguide1983/index.html

Chapters in Books

4. *Face De-identification*.
[Gross, R.](#), [Sweeney, L.](#), Cohn, J., de la Torre, F. and Baker, S.
Protecting Privacy in Video Surveillance, A. Senior, editor. Springer, 2009.
dataprivacylab.org/projects/facedeid/index.html.
5. *Information Explosion*.
[Sweeney, L.](#)
Confidentiality, Disclosure, and Data Access: Theory and Practical Applications for Statistical Agencies, L. Zayatz, P. Doyle, J. Theeuwes and J. Lane (eds), Urban Institute, Washington, DC, 2001. dataprivacylab.org/projects/explosion/index.html.
6. *Datafly: a system for providing anonymity in medical data*.
[Sweeney, L.](#)
Database Security, XI: Status and Prospects, T. Lin and S. Qian (eds), Elsevier Science, Amsterdam, 1998. dataprivacylab.org/datafly/index.html

Refereed Journal Papers - Published

7. *Privacy Preserving Synthetic Data Release Using Deep Learning*.
Abay N, Zhou Y, Kantarcioglu M, Thuraisingham B, [Sweeney L.](#)
ECML PKDD 2018: Machine Learning and Knowledge Discovery in Databases. Joint European Conference on Machine Learning and Knowledge Discovery in Databases. pp 510-526.

8. [Saying it's Anonymous Doesn't Make It So: Re-identifications of "anonymized" law school data.](#)
Sweeney L, Von Loewenfeldt M, Perry M.
Technology Science, 2018111301. November 13, 2018.
9. [Risks to Patient Privacy: A Re-identification of Patients in Maine and Vermont Statewide Hospital Data.](#)
Yoo J, Thaler A, Sweeney L, Zang J.
Technology Science, 2018100901. October 09, 2018
10. [Voter Identity Theft: Submitting Changes to Voter Registrations Online to Disrupt Elections.](#)
Sweeney L, Yoo J, Zang J.
Technology Science, 2017090601. September 06, 2017. Version 2.
11. [Re-identification Risks in HIPAA Safe Harbor Data: A study of data from one environmental health study.](#)
Sweeney L, Yoo J, Perovich L, Boronow K, Brown P, Brody J.
Technology Science, 2017082801. August 28, 2017.
12. [Who Knows What About Me? A Survey of Behind the Scenes Personal Data Sharing to Third Parties by Mobile Apps.](#)
Zang J, Dummit K, Graves J, Lisker P, and Sweeney L.
Technology Science, 2015103001. October 30, 2015.
13. [Sharing Sensitive Data with Confidence: The Datatags System.](#)
Sweeney L Crosas M, and Bar-Sinai M.
Technology Science, 2015101601. October 16, 2015.
14. [De-anonymizing South Korean Resident Registration Numbers Shared in Prescription Data.](#)
Sweeney L and Yoo J.
Technology Science, 2015092901. September 29, 2015.
15. [Only You, Your Doctor, and Many Others May Know.](#)
Sweeney L.
Technology Science, 2015092903. September 29, 2015.
Earlier technical report: Sweeney L. Matching Known Patients to Health Records in Washington State Data. Harvard University. Data Privacy Lab. 1089-1. June 2013.
16. [Automating Open Science for Big Data.](#)
Shah D, Cappella J, Neuman W, Crosas M, King G, Honaker J and Sweeney L.
The ANNALS of the American Academy of Political and Social Science May 2015 vol. 659 no. 1 260-273.
17. [Discrimination in Online Ad Delivery.](#)
Sweeney L.
Communications of the Association of Computing Machinery (CACM), Vol. 56 No. 5, Pages 44-54 DOI 10.1145/2447976.2447990 <http://cacm.acm.org/magazines/2013/5/163753-discrimination-in-online-ad-delivery/abstract>
Earlier technical report: Data Privacy Lab [White Paper 1071-1](#). Harvard University. Cambridge.

- January 2013. SSRN: <http://ssrn.com/abstract=2208240> and arXiv: <http://arxiv.org/abs/1301.6822>.
18. [Putting Health IT on the Path to Success](#)
William Yasnoff, MD, [Latanya Sweeney, PhD](#), Edward Shortliffe, MD
Journal of the American Medical Association (JAMA) 2013;309(10):989-990.
doi:10.1001/jama.2013.1474
 19. [Managing End-of-Life Care in Complex Patients Can Reduce Costs Without Shortening Life.](#)
[Latanya Sweeney, PhD](#), Andrew Halpert MD, Joan Waranoff MS MBA
American Journal of Managed Care 13 February 2007, pp. 84-92. (impact factor 2.28)
Earlier version available as Carnegie Mellon University, Technical Report CMU-ISRI-05-124.
dataprivacylab.org/projects/complexcare/index.html.
 20. [Protecting Job Seekers from Identity Theft.](#)
[Sweeney, L.](#)
IEEE Internet Computing 10 (2) March 2006. (impact factor 1.55)
Earlier version available as *A Guardian Angel Protects You From Identity Theft*. Carnegie Mellon University, LIDAP Working Paper 16. Pittsburgh: January 2006.
 21. [Privacy-Enhanced Linking.](#)
[Sweeney, L.](#)
ACM SIGKDD Explorations 7(2) December 2005.
Earlier version available as Carnegie Mellon University, School of Computer Science Technical Report CMU-ISRI-05-136. Pittsburgh: November 2005.
dataprivacylab.org/projects/pel/index.html.
 22. [Privacy-Preserving Surveillance using Databases from Daily Life.](#)
[Sweeney, L.](#)
IEEE Intelligent Systems, 20 (5), September-October 2005. (impact factor 1.44)
Also known as Homeland Security by John Yen , Robert Popp , George Cybenko , K.A. Taipale , Latanya Sweeney , Paul Rosenzweig in same issue. Earlier version available as *Privacy-Preserving Surveillance using Selective Revelation*, Carnegie Mellon University, LIDAP Working Paper 15, February 2005. dataprivacylab.org/projects/selectiverevelation/index.html.
 23. [Preserving Privacy by De-identifying Facial Images.](#)
Newton, E., [Sweeney, L.](#), and Malin, B.
IEEE Transactions on Knowledge and Data Engineering, 17 (2) February 2005, pp. 232-243.
(impact factor 1.90)
Originally available as Carnegie Mellon University, School of Computer Science, Technical Report, CMU-CS-03-119. Pittsburgh: March 2003. dataprivacylab.org/projects/video/index.html.
 24. [Navigating Computer Science Research Through Waves of Privacy Concerns: Discussions among Computer Scientists at Carnegie Mellon University.](#)
[Sweeney, L.](#)
ACM Computers and Society, 34 (1) April 2004.
Originally available as Carnegie Mellon University, School of Computer Science, Technical Report CMU-CS-03-165, CMU-ISRI-03-102. Pittsburgh: July 2003.

- dataprivacylab.org/projects/csresearch.html
25. [Finding Lists of People on the Web.](#)
Sweeney, L.
ACM Computers and Society, 34 (1) April 2004.
Originally available as Carnegie Mellon University, School of Computer Science, Technical Report CMU-CS-03-168, CMU-ISRI-03-104. Pittsburgh: June 2003.
<https://dl.acm.org/doi/10.1145/1517455.1517457>
 26. [How \(not\) to protect genomic data privacy in a distributed network: using trail re-identification to evaluate and design anonymity protection systems.](#)
Malin, B. and Sweeney, L.
Journal of Biomedical Informatics. 2004; 37(3): 179-192. (impact factor 2.0) Also available on [MEDLINE](#). **Best of the Year Award** by the International Medical Informatics Association, and as such appears in *The 2005 Year Book of Medical Informatics* ([more](#)).
dataprivacylab.org/projects/trails/dnaTrails.html
 27. [k-anonymity: a model for protecting privacy.](#)
Sweeney, L.
International Journal on Uncertainty, Fuzziness and Knowledge-based Systems, 10 (5), 2002; 557-570. (impact factor 0.38) Received **recognition award** as a noteworthy work at the 2004 Workshop on Privacy Enhancing Technologies. The concept "k-anonymity," which this paper introduces has been **heavily cited** in other academic publications. 2018 Recipient of the Association of Computing Machinery (ACM) CODASPY **Lasting Research Award**.
dataprivacylab.org/projects/kanonymity/kanonymity.html.
 28. [Achieving k-anonymity privacy protection using generalization and suppression.](#)
Sweeney, L.
International Journal on Uncertainty, Fuzziness and Knowledge-based Systems, 10 (5), 2002; 571-588. (impact factor 0.38) dataprivacylab.org/projects/kanonymity/kanonymity2.html. 2018 Recipient of the Association of Computing Machinery (ACM) CODASPY **Lasting Research Award**.
 29. [Inferring Genotype from Clinical Phenotype through a Knowledge Based Algorithm.](#)
Malin, B. and Sweeney, L.
Pacific Symposium on Biocomputing 2002, R.B. Altman et al. (Eds.) (World Scientific, Singapore, 2002). Also available on [MEDLINE](#). dataprivacylab.org/projects/genetic/dna3.html
 30. [Commentary: Researchers need not rely on consent or not.](#)
Sweeney, L.
New England Journal of Medicine, 1998. (impact factor 52.59)
dataprivacylab.org/projects/research/index.html
 31. [Weaving technology and policy together to maintain confidentiality.](#)
Sweeney, L.
Journal of Law, Medicine and Ethics. 1997, **25**:98-110. (impact factor 1.04) Cited and discussed in the commentary of the **HIPAA Privacy Rule**. dataprivacylab.org/projects/law/law1.html

Refereed Conference/Workshop Paper - Published

32. [Practical Differentially Private Modeling of Human Movement Data.](#)
Roy H, Kantarcioglu M, [Sweeney L.](#)
30th IFIP Annual Conference on Data and Applications Security and Privacy (DBSec), Jul 2016, Trento, Italy. pp.170-178.
33. [Adaptive Gaussian Process for Wind Speed Forecast](#)
Jiang, X., Dong, B., Xie, L., and [Sweeney, L.](#)
The 19th European Conference on Artificial Intelligence (ECAI 2010).
dataprivacylab.org/projects/sensor/index.html
34. [From Sensor Networks to Social Networks - A Time Series M3N Approach](#)
Jiang, X., Bing, D., and [Sweeney, L.](#)
NIPS Workshop Analyzing Networks and Learning with Graphs, 2009.
dataprivacylab.org/projects/sensor/index2.html
35. [Multi-Factor De-Identification of Facial Images.](#)
Gross, R., and [Sweeney, L.](#), Cohn, F., de la Torre, F., and Baker, S.
Proceedings of the 2008 American Medical Informatics Association Annual Symposium, 2008.
(AMIA acceptance rate 29%) dataprivacylab.org/projects/facedeid/index2.html
36. [Semi-Supervised Learning of Multi-Factor Models for Face De-Identification.](#)
Gross, R. and [Sweeney, L.](#)
IEEE Conference on Computer Vision and Pattern Recognition, Anchorage, AK, June 2008.
(CVPR acceptance rate 28%) dataprivacylab.org/projects/facedeid/index3.html
37. [Towards Real-World Face De-Identification.](#)
Gross, R. and [Sweeney, L.](#)
IEEE Conference on Biometrics, Washington, DC, September 2007. (BTAS acceptance rate 11%) dataprivacylab.org/projects/facedeid/index4.html
38. [Robust Hand Geometry Measurements for Person Identification using Active Appearance Models.](#)
Gross, R., Li, Y., and [Sweeney, L.](#), Jiang, X., Xu, W., and Yurovsky, D.
IEEE Conference on Biometrics, Washington, DC, September 2007. (BTAS acceptance rate 11%) dataprivacylab.org/projects/hand/index.html
39. [New Direction on Contact-free Hand Recognition.](#)
Jiang, X., Xu, W., Li, Y., [Sweeney, L.](#), Gross, R., and Yurovsky, D.
IEEE International Conference on Image Processing, San Antonio, Texas, September 2007.
(ICIP acceptance rate 46%) dataprivacylab.org/projects/hand/index2.html
40. [2D image database indexing: a coefficient-based approach.](#)
Jiang, X., Xu, W., Li, Y., [Sweeney, L.](#), Gross, R., and Yurovsky, D.
IEEE International Conference on Multimedia and Expo, Beijing, China, July 2007. (ICME acceptance rate 22%) dataprivacylab.org/projects/hand/index3.html

41. [Composition and disclosure of unlinkable distributed databases.](#)
Malin, B. and [Sweeney, L.](#)
22nd IEEE International Conference on Data Engineering, Atlanta, GA, April 2006. (ICDE acceptance rate 19%) dataprivacylab.org/projects/trails/index4.html
42. [Model-based face de-identification.](#)
R. Gross, [Sweeney, L.](#), de la Torre, F., and Baker, S.
IEEE Workshop on Privacy Research in Vision, 2006.
dataprivacylab.org/projects/facedeid/index5.html
43. [A secure protocol to distribute unlinkable health data.](#)
Malin, B. and [Sweeney, L.](#)
Proceedings, Journal of the American Medical Informatics Association. Washington, DC. Oct 2005: 485-489. (AMIA acceptance rate 29%) dataprivacylab.org/projects/trails/index5.html
44. [Email Alias Detection Using Network Analysis.](#)
Holzer, R. Malin, B., and [Sweeney, L.](#)
Proceedings of the ACM SIGKDD Workshop on Link Discovery: Issues, Approaches, and Applications. Chicago, IL. August 2005. (LinkKDD acceptance rate 19%)
dataprivacylab.org/projects/emailaliases/index.html.
45. [AI Technologies to Defeat Identity Theft Vulnerabilities.](#)
[Sweeney, L.](#)
AAAI Spring Symposium, AI Technologies for Homeland Security, 2005.
dataprivacylab.org/projects/idangel/index.html.
46. [Mining Images in Publicly-Available Cameras for Homeland Security.](#)
[Sweeney, L.](#) and Gross, R.
AAAI Spring Symposium, AI Technologies for Homeland Security, 2005.
dataprivacylab.org/projects/videocount/index.html.
47. [Technologies to Defeat Fraudulent Schemes Related to Email Requests.](#)
Airoldi, E. and Malin, B., and [Sweeney, L.](#)
AAAI Spring Symposium, AI Technologies for Homeland Security, 2005.
dataprivacylab.org/projects/scampam/index.html.
48. [Privacy-Preserving Bio-terrorism Surveillance.](#)
[Sweeney, L.](#)
AAAI Spring Symposium, AI Technologies for Homeland Security, 2005.
dataprivacylab.org/projects/bioterror/index.html.
49. [Towards a Privacy-Preserving Watchlist Solution.](#)
[Sweeney, L.](#)
AAAI Spring Symposium, AI Technologies for Homeland Security, 2005.
dataprivacylab.org/projects/watchlist/index.html.
50. [Integrating Utility into Face De-Identification.](#)
Gross, R. Airoldi, E., Malin, B., and [Sweeney, L.](#)

- Workshop on Privacy-Enhanced Technologies*, 2005. (PET acceptance rate 26%)
dataprivacylab.org/projects/videoutility/index.html.
51. [Guaranteeing anonymity when sharing medical data, the datafly system.](#)
Sweeney, L.
Proceedings, Journal of the American Medical Informatics Association. Washington, DC: Hanley & Belfus, Inc., 1997. (AMIA acceptance rate 29%) **Recognition award**.
dataprivacylab.org/datafly/index4.html
 52. [Replacing Personally-Identifying Information in Medical Records, the Scrub System.](#)
Sweeney, L.
In: Cimino, JJ, ed. *Proceedings, Journal of the American Medical Informatics Association*. Washington, DC: Hanley & Belfus, Inc., 1996:333-337. (AMIA acceptance rate 29%) **Best paper award**. dataprivacylab.org/projects/scrub/index.html
 53. [Re-Identification of DNA through an Automated Linkage Process .](#)
Malin, B. and Sweeney, L.
Proceedings, Journal of the American Medical Informatics Association. Washington, DC: Hanley & Belfus, Inc. Nov 2001; 423-427. (AMIA acceptance rate 29%)
dataprivacylab.org/projects/genetic/dna2.html
 54. [Electronic Disease Surveillance and Reporting: the eReport System.](#)
Malloy, W. and Sweeney, L.
Proceedings, Journal of the American Medical Informatics Association. Washington, DC: Hanley & Belfus, Inc. Nov 2001; 964. (AMIA acceptance rate 29%)
dataprivacylab.org/projects/ereport/index.html
 55. [Determining the Identifiability of DNA Database Entries.](#)
Malin, B. and Sweeney, L.
Proceedings, Journal of the American Medical Informatics Association. Washington, DC: Hanley & Belfus, Inc. Nov 2000; 537-541. (AMIA acceptance rate 29%)
dataprivacylab.org/projects/genetic/dna1.html
 56. [Foundations of Privacy Protection from a Computer Science Perspective.](#)
Sweeney, L.
Proceedings, Joint Statistical Meeting, AAAS, Indianapolis, IN. 2000.
dataprivacylab.org/projects/disclosurecontrol/index.html
 57. [An intelligent tutor for teaching basic computer science and Java programming to medical informatics students.](#)
Sweeney, L.
Proceedings, Journal of the American Medical Informatics Association. Washington, DC: Hanley & Belfus, Inc., 1999. (AMIA acceptance rate 29%)
dataprivacylab.org/projects/tutor1/index.html
 58. [Y2K BEACON: an intelligent web-based crisis center for disseminating Year 2000 biomedical equipment compliance information.](#)
Sweeney, L. and Barrett, S.

- Proceedings, Journal of the American Medical Informatics Association*. Washington, DC: Hanley & Belfus, Inc., 1999. (AMIA acceptance rate 29%)
dataprivacylab.org/projects/crisis/index.html
59. [Protecting privacy when disclosing information: k-anonymity and its enforcement through generalization and suppression.](#)
 Samarati, P. and [Sweeney, L.](#)
Proceedings of the IEEE Symposium on Research in Security and Privacy, May 1998, Oakland, CA. (S&P acceptance rate 10%) Also appears as Protecting respondents identities in microdata release, *IEEE Transactions on Knowledge and Data Engineering*, 2001. (impact factor 1.90)
dataprivacylab.org/projects/kanonymity/index3.html
60. [Generalizing data to provide anonymity when disclosing information.](#)
 Samarati, P. and [Sweeney, L.](#)
ACM Principles of Database Systems. Seattle, WA, USA, 1998. (PODS acceptance rate 21%)
dataprivacylab.org/projects/kanonymity/index4.html
61. [Towards the optimal suppression of details when disclosing medical data, the use of sub-combination analysis.](#)
[Sweeney, L.](#)
 Proceedings, *MEDINFO 98*. International Medical Informatics Association. Seoul, Korea. North-Holland, 1998. dataprivacylab.org/projects/kanonymity/index5.html
62. [Three computational systems for disclosing medical data in the year 1999.](#)
[Sweeney, L.](#)
 Proceedings, *MEDINFO 98*. International Medical Informatics Association. Seoul, Korea. North-Holland, 1998. dataprivacylab.org/projects/kanonymity/index6.html
63. [Computational Disclosure Control for Medical Microdata.](#)
[Sweeney, L.](#)
Record Linkage Workshop. Bureau of the Census. Washington, DC: 1997.
dataprivacylab.org/projects/kanonymity/index7.html

Commentaries and News Articles

64. [Privacy Issues Overlooked](#)
[Sweeney, L.](#)
Modern Healthcare. September 9, 2010. dataprivacylab.org/projects/nhin3/

Technical Reports and White Papers (excluding any subsequently published or submitted)

65. A study to assess the impact of re-identification on the willingness of patients to contribute personal information to a genomics project.
[Sweeney, L.](#), Abu A., Winn J. and Zang J.
66. Identifying Participants in the Personal Genome Project by Name.

- [Sweeney, L.](#), Abu A. and Winn J.
67. Publicly Available State Health Databases are not HIPAA Compliant.
[Hooley S.](#) and [Sweeney, L.](#)
 68. Privacy-Preserving Marketplaces.
[Sweeney, L.](#), Pentland, S., Chong, S., and Parkes, D.
 69. A Multiparty Computation for Learning where People have been Without Knowing Who they Are.
[Sweeney, L.](#)
 70. Formal Protection Models: how to prove data are anonymous.
[Sweeney, L.](#)
 71. [Patient Privacy Risks in U.S. Supreme Court Case Sorrell v. IMS Health Inc.: Response to Amici Brief of El Emam and Yakowitz](#)
[Sweeney, L.](#)
Data Privacy Lab Working Paper 1027. Cambridge 2011.
dataprivacylab.org/projects/identifiability/pharma2.html
 72. [Patient Identifiability in Pharmaceutical Marketing Data](#)
[Sweeney, L.](#)
Data Privacy Lab Working Paper 1015. Cambridge 2011. Earlier version available as *Identifiability of De-identified Pharmacy Data*. Pittsburgh 2003.
dataprivacylab.org/projects/identifiability/pharma1.html
 73. [The Medical Billing Framework as the Backbone of the National Health Information Infrastructure.](#)
[Sweeney, L.](#)
Data Privacy Lab. AdvanceHIT Series. Working Paper 1001. October 2009.
dataprivacylab.org/projects/nhin1/
 74. [Demonstration of a Privacy-Preserving System that Performs an Unduplicated Accounting of Services across Homeless Programs.](#)
[Sweeney, L.](#)
Data Privacy Lab Working Paper 902. Pittsburgh 2007, October 2008.
dataprivacylab.org/projects/homeless/index2.html
 75. *The HandShot Hand Tracking System.*
Gross, R. and [Sweeney, L.](#)
Carnegie Mellon University, School of Computer Science, Technical Report, 2009. In preparation.
 76. *Photographing Friction Ridge Information: A Research Notebook.*
[Sweeney, L.](#)
Carnegie Mellon University, School of Computer Science, Data Privacy Laboratory, Technical Report LIDAP-43.

- Pittsburgh: (2007, 2009). In preparation.
77. *Converting a Photograph of Friction Ridge Information to a Corresponding Ink-Like Print: A Research Notebook.*
[Sweeney, L.](#)
Carnegie Mellon University, School of Computer Science, Data Privacy Laboratory, Technical Report LIDAP-39.
Pittsburgh: (July 2006, May 2007, 2009). In preparation.
78. *Identifiability of De-identified Clinical Trial Data.*
[Sweeney, L.](#)
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Carnegie Mellon University, School of Computer Science, Data Privacy Laboratory, Technical Report LIDAP-32.
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86. *CameraWatch*.
[Sweeney, L.](#)
Carnegie Mellon University, School of Computer Science, Data Privacy Laboratory, Technical Report. Pittsburgh: 2005. dataprivacylab.org/projects/camwatch/
87. *Adding Semantics and Rigor to Association Rule Learning: the GenTree Approach*.
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[Sweeney, L.](#)
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103. *Maintaining anonymity when sharing medical data, the datafly system.*
[Sweeney, L.](#)
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 Carnegie Mellon University, School of Computer Science, Data Privacy Laboratory, Technical Report. Pittsburgh: 1997.
 The Iterative Profiler sifts through publicly available data, using inferential linkages of data fragments across data sources to construct profiles of people whose information appears in the data. After it re-identified the names of children who appeared in a cancer registry, an Illinois court ordered the approach sealed. For the appellate decision, which upheld the sealing of the methodology while highly praising my approach, see
<http://www.state.il.us/court/Opinions/AppellateCourt/2004/5thDistrict/June/Html/5020836.htm>.
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[Sweeney, L.](#)
 Massachusetts Institute of Technology, AI Laboratory: Working paper. 1996.
106. *Computational Disclosure Control: Theory and Practice.*
[Sweeney, L.](#)
 Massachusetts Institute of Technology, Ph.D. Thesis in Computer Science, 2001.
107. *Sprees, a Finite-State Orthographic Learning System that Recognizes and Generates Phonologically Similar Spellings.*
[Sweeney, L.](#)
 Massachusetts Institute of Technology, Masters Thesis in Computer Science. Finalist in MasterWorks. 1997.
108. *A Coin Toss: the Dialectical Odds aren't always 50/50.*
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Patents and Invention Disclosures

109. *Systems and methods for deidentifying entries in a data source.*
[Sweeney, L.](#)
[Patent 7,269,578](#). Issued on 9/11/2007.
110. *Method and System for Capturing Fingerprints, Palm Prints and Hand Geometry.*
[Sweeney, L.](#), [Weedn, V.](#), and [Gross, R.](#)
[Patent 7660442](#). Issued on 2/9/2010.
111. *Frontal Hand Capture of Fingerprints, Palm Prints and Hand Geometry Using Contactless*

Photography.

[Sweeney, L.](#), Gross, R., and Jiang, X.

Application filed July 2008.

112. *Method for Knowing Where People Have Been Without Knowing Who They Are*
[Sweeney, L.](#) Application filed May 2009.
113. *Apparatus and Method for Instructing Students.* Intelligent tutoring system.
[Sweeney, L.](#)
114. *Privacert Stream Editing.*
[Sweeney, L.](#)

Software Artifacts

Core Semantic Learning Technologies Invented

- Sprees: a finite state orthographic learning system that recognizes and generates phonologically similar spellings. This was my Masters thesis. [1995]
- Scout: an algorithm and software program that profiles a dataset to learn what fields are present and the kind of information contained within, thereby providing a semantic description of an unknown dataset. [1995]
- Database Profiling Server: an algorithm and software program that relates fields across datasets and tables, thereby identifying fields containing duplicate information across tables and fields in one table that can be reliably linked to those in another table --learning is based on the actual values that appear in the tables. [1996]
- Identifiability Server: a process and related models for determining how identifiable individuals and other entities within data may be by utilizing summary and aggregate data, e.g., Census data. A finding now cited in hundreds of articles is that "87% of the US population is uniquely identified by {*date of birth, gender, 5-digit ZIP*}". This work is the source of that finding when used with Census data. [1997]
- Risk Assessment Server: a system for determining how identifiable individuals within data may be by utilizing an inference engine, a taxonomy and ontology of fields, specific domain knowledge, knowledge about available datasets, and population specifics. This server is licensed commercially to perform HIPAA Certifications (see privacert.com); and, can be used in privacy-preserving bio-terrorism surveillance (see my AAAS Presentation and TAPAC testimony). It has also been the basis, in part, of my numerous expert witness consultations and testimonies. [1998]
- Donor Profiling and Solicitation (DPS): an algorithm and software program that learns a psychological profile of a person based on giving history, and then uses compiled information to determine an optimal personalized solicitation strategy for a given solicitation attempt. Previously licensed to CESS, Inc. and Share Systems, Inc., who used it with more than 30 leading non-profit organizations including the Democratic National Party, the National Organization for Women, the Harlem Boy's Choir, Bishop Tutu's South African Freedom Campaign, and Greenpeace. [1987]
- DPS Extractor: an algorithm and software program that learns titles, given names, surnames, suffixes, street names, and other information about a household by extracting and interpreting information from mailing labels. This was licensed to CESS, Inc. and to

- Share Systems, Inc. [1987]
- **Biblio**: an algorithm and software program that extracts publication references from raw text bibliographies, identifying constituent parts (author names, title, publication, etc.), and then uses learned information to remove duplicates and to construct a searchable database. This was licensed to CESS, Inc. and Chitin, Inc. [1988]
 - **Scrub Extractor**: an algorithm and software program that automatically extracts names, addresses, and other identifying information from letters, notes, articles, and other free text documents. (Basis, in part, for Scrub System, which is a privacy de-identification tool described below.) [1996]
 - **Iterative Profiler**: an algorithm and process by which increasing amounts of information is related to individuals using inferential linkages of data fragments across various kinds of data sources. This has been the basis, in part, of some of my expert witness experiments and testimonies. [1997]
 - **RosterFinder**: an algorithm and program that uses the Google API to allow searches for web pages containing rosters (lists of names) of people. A sample use was to locate web pages containing rosters of undergraduate students in computer science; about 18,725 students were found in 39 schools. Results are available in a searchable database [on-line](#) (thanks in part to Marshall Warfield). [2003]
 - **CameraWatch**: a suite of algorithms and programs for locating IP addresses of live webcams and webpages showing images from live webcams. A sample of the results is available in an on-line searchable database (thanks in part to Kishore Madhava). The work has been highlighted on ABC News, CNN, USA Today, SlashDot, and has had more than a million hits to the website. [2003]
 - **SSNwatch**: a method and process by which public information about Social Security number (SSN) allocations is used to learn past residential information and current age inferences about the person to whom the SSN was assigned. This provides a means to match a person presenting an SSN to the demographics learned about the SSN, which is useful in combating [identity theft](#). [2004]

Data Privacy Technologies Invented

- ***k*-Anonymity**: any algorithm or process that anonymizes data by insuring each entity in the data is indistinguishable from at least a specific number of other such entities in the data. Patent issued. Received a recognition award from the 2004 Workshop on Privacy Enhancing Technologies. Has been cited, discussed and extended in lots of academic work by others across numerous communities and applied to all kinds of data and has inspired other kinds of uses (e.g., *k*-anonymous messaging). [1997]
- **Datafly**: an algorithm and general-purpose software program that anonymizes field-structured data so that the released data adheres to a *k*-anonymity requirement. Specifically, there are *k* records that are indistinct over the fields sensitive to re-identification. Received a recognition award from the American Medical Informatics Association. A license was provided to Datanon, LLC and now subsequently to Privacert, Inc. [1997]
- ***k*-Similar**: a general-purpose clustering algorithm that groups the closest information together with the guarantee that there are at least *k* members to each cluster. The number of clusters is not fixed, making the algorithm the converse of the very well-known *k*-means cluster algorithm, which guarantees there are at least *k* clusters having any number of

members. Like Datafly, *k*-Similar can be used to anonymize field-structured data so that the released data adheres to a *k*-anonymity requirement. But unlike Datafly, results from *k*-Similar maintain the maximum detail possible. A license was provided to Datanon, LLC and now subsequently to Privacert, Inc. [1998]

- *k*-Same (with Elaine Newton and Bradley Malin): an algorithm for de-identifying faces in video surveillance data such that no face recognition software (no matter how good the software may get) can reliably recognize the resulting images even though most facial details are preserved. This is done by averaging image components, which may be the original image pixels (*k*-Same-Pixel) or eigenvectors (*k*-Same-Eigen) so that *k*-anonymity is assured. [2003]
- *Scrub*: an algorithm and software program that anonymizes unrestricted text such that the identities of individuals and other entities in the data cannot be re-identified. (Converse of Scrub Extractor mentioned earlier.) Based on its use with clinical notes and letters, it received a recognition award from the American Medical Informatics Association in 1996. [1996]
- Policy Explorer: an algorithm and process that characterizes and quantifies data sharing practices by estimating how much information is made available about each entity that is the subject of the data and reporting related measures of risks. Provides a tool for comparing competing policies and performing "what if" analyses. [1997]
- Privacert: a rule-based system with related language ("PrivaCert Editing Language") for expressing and enforcing anonymity requirements to render a specific dataset sufficiently de-identified. Results satisfy privacy standards established by the Risk Assessment Server (mentioned above) and not necessarily *k*-anonymity. This technology is licensed to Privacert, Inc. for use in rendering health data sufficiently de-identified in accordance to HIPAA (U.S. medical privacy regulation). [1997]
- PrivaSum (with Samuel Edo-Eket): a real-world protocol that allows parties to jointly compute an aggregate statistic over a network such that the result is known by all but the contribution by each party remains confidential. Performance is improved over the traditional secret sharing approach, which is deterministic, by providing probabilistic assurances even in the face of widespread collusion by some malicious parties. [2004]

Other Semantic Learning Technologies Invented

- *Collaboration Wheel*: an on-line tool for supporting group joint work on a common document in a networked environment. Java prototype built by Charles Shelton in 1997. [1997]
- *Active Tutor (aka Power Learning)*: an on-line teaching-learning environment, where the computer plays the role of an expert teacher. Instructions and practice are seamlessly integrated and adapted to the personal needs of each student. On-line demonstration available. [1983-2002]
- *Virtual lectures*: By taking the expected path of an "average student" through an Active Tutor (described above), the teaching-learning material can be condensed into carefully crafted on-line lectures. Teaching-learning materials for 3 full semesters of the Java Programming language are available on-line (Java1, Java2, Java3) and have been used to teach hundreds of students in courses at Carnegie Mellon (e.g., 15-100) and Harvard University, officially, and many other schools unofficially. Numerous non-traditional students have reported using the on-line materials for self-directed learning. [1998-2002]

- GridCity: a visual programming environment in which students write Java programs to control vehicles in a GridWorld. This is an adaptation of *Karel the Robot* by Richard Pattis, but this adaptation exploits the fundamental programming constructs made possible by Java that were not available to Karel in Pascal. On-line demonstrations and software download available. Used by hundreds of students at Carnegie Mellon and Harvard University. [1999-2002]
- Bebe: an algorithm and software program for learning the basic sounds of a human language based on automated detection of phonemes in the analog waveform. No high-level knowledge of the language is used, so performs as well learning the Korean sound system as the American English sound system. Early implementations done jointly with Patrick Thompson. [1997]
- Iris Expert System shell: a method and software program for developing on-line expert systems for diagnostic tasks. A sampler was built for interviewing people about personal behaviors that may place them at risk to AIDS; the program received regional print and radio news coverage in New England. [1989]
- CompuFix: a software program that steps a person through the repair of a personal computer, assuming no prior knowledge of computer repairs. Uses the Iris Expert System shell (mentioned above). Was licensed to American Information Technologies, which sold copies commercially. [1990]

Theses

- *Computational Disclosure Control: Theory and Practice*. . Massachusetts Institute of Technology, Laboratory for Computer Science, Tech Report, **PhD Thesis**. 2001. Committee: Hal Abelson (Chair), Peter Szolovits, and Daniel Weitzner.
- *Sprees, a Finite-State Orthographic Learning System that Recognizes and Generates Phonologically Similar Spellings*. Massachusetts Institute of Technology, Artificial Intelligence Laboratory: Working paper, **Masters Thesis**. 1997. Finalist in MasterWorks. Thesis advisor: Peter Szolovits.
- *A Coin Toss: the Dialectical Odds aren't always 50/50*. Harvard University, Faculty of Arts and Sciences: Working paper, **ALB Thesis**. 1995. Advisors: Henry Leitner (Harvard) and Jon Doyle (MIT).

Awards and Honors Received (excluding keynote talks and best paper awards):

- Honorary Doctorate Degree. Haverford College, Pennsylvania, May 2018.
- 2018 Recipient of the Association of Computing Machinery (ACM) CODASPY Lasting Research Award for my work on data privacy. March 2018.
- Elected Fellow, American College of Medical Informatics, 2006. (*Highly distinguished*)
- 2004 Workshop on Privacy Enhancing Technologies, Recognition Award for my work on *k*-anonymity, Toronto, Canada 2004.
- Blue Cross Blue Shield Association of Michigan, Privacy Leadership Award, 2002.
- American Psychiatric Association, Privacy Advocate Award, 2001. (*Highly distinguished*)
- American Medical Informatics Association, Recognition Award, 1997.
- National Library of Medicine, Research Recognition, 1997.
- American Medical Informatics Association, First Place Award, 1996.
- Massachusetts Institute of Technology, Masterworks Finalist, 1996.
- National Library of Medicine, Training Fellow, 1995.
- Harvard University, Academic Achievement Award, 1995.

Public Service (Selected)

Editorial Board Appointments

- Journal of Privacy Technology, Editor-in-Chief, 2006 - today
- Journal of Law and Policy for the Information Society
- Ad hoc reviewer: IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE), Journal of the American Medical Association (JAMIA), IEEE Security and Privacy Magazine, Science
- Program committee: Knowledge and Discovery in Data (KDD) 2003, Modeling Decisions for Artificial Intelligence (MDAI) 2005, Workshop on Privacy Enhancing Technologies (PET) 2005.

At Carnegie Mellon (Selected)

- Co-founded a new PhD program in the School of Computer Science at Carnegie Mellon, named the PhD program is Computation, Organizations and Society. This was work done with Kathleen Carley, Norman Sadeh, and many in the SCS faculty. August 2003.
- Hosted two brainstorming sessions for faculty at the School of Computer Science at CMU. Topic was computer science research and privacy concerns in emerging technologies. Resulted in a white paper and then to an [ACM publication](#). It has also led to the formation of the Privacy Technology Center and a related funding proposal. The initial workshops were held in July 2003.
- Helped organize a 2-day workshop for computer scientists on data privacy called Privacy in D.A.T.A. Held March 27-28, 2003 at CMU. Sponsored by the NSF Aladdin Center and the Data Privacy Lab at CMU. This was work done with Guy Blelloch, Lenore Blum, and Manuel Blum.

Invited Talks of [Latanya Sweeney, Ph.D.](#)

This list excludes conference and workshop paper presentations.

Recent Talks (Invited, excluding paper presentations)

- "*Technology and Society Clashes: How to Resolve Them*"
RSA Conference.
San Francisco, CA. March 2019.
- "*Algorithmic Fairness and Accountability*"
Debate with the French Minister of the Digital Economy on French Television.
Paris, France. March 2018.
- "*The Challenges Technology Pose*"
Federal Privacy Council 2018 Privacy Summit.
Washington, DC. November 2018.
- "*Tech Science to the Rescue*"
Keynote. Black Women in Computing Conference (BlackComputerHER).

Atlanta, Georgia. April 2018.

- "*Algorithmic Fairness and Accountability*"
Keynote. Women in Data Science Conference.
Stanford, Palo Alto, California. March 2018.
- "*How to Save Democracy and the World*"
Opening Keynote. Association of Computing Machinery (ACM) Conference on Fairness, Accountability, and Transparency. New York University, New York.
New York, NY. February 2018.
- "*Evidence-Based Policy Making and Tiered Access to Data*"
Bureau of Labor Statistics, Washinton DC. The Federal Committee on Statistical Methodology (FCSM) and the Washington Statistical Society (WSS) hosted a workshop on the quality of integrated data.
Washington, DC. January 2018.
- "*How Technology Impacts Humans and Governs our Lives*"
Grace Hopper 2016 Conference (Keynote address to 15 thousand attendees.)
Houston, TX October 19, 2016.
- "*Implications of Patient Privacy in Sorrell v. IMS Health.*"
Health Patient Privacy Summit,
Washington, DC June 13, 2011. ([video](#), [more](#))
- "*The Science of Privacy Technology.*"
American Association for the Advancement of Science (AAAS),
Topical Lecture at Annual Meeting, St. Louis, MO. February 17, 2006.
- "*De-Identifying Health Data.*"
Health Canada (Federal Department of Health),
Ottawa, Ontario Canada. December 1, 2005.
- "*Strategies for De-Identifying Patient Data for Research.*"
Electronic Health Information and Privacy Conference,
Ottawa, Ontario Canada. November 30, 2005.
- "*Risk Assessments of PIN Technologies [identity management] for Domestic Violence Shelters (Updated).*"
Housing and Urban Development.
Washington, DC November 18, 2005.
- "*Identity Management: solutions of privacy not security*",
Guest Lecture in Course 17-606, Software Systems Security Engineering,
Carnegie Mellon University. Pittsburgh, PA. November 16, 2005.
- "*Identity Management: Dealing with Disclosure.*"
6th CACR,

- Toronto, Canada, November 3, 2005.
- "*Privacy Principles for Ubiquitous Technologies*",
Testimony before the European Commission,
Brussels, Belgium, October 25, 2005.
 - "*Aging with Dignity: Privacy need not be traded for technical assistance.*"
Technology for Life and Living Conference,
University of Pittsburgh Medical Center, Pittsburgh, PA, October 21, 2005.
 - "*Recommendations to Identify and Combat Privacy Problems in the Commonwealth*",
Testimony before the Pennsylvania House Select Committee on Information Security (HR351),
Pittsburgh, PA, October 5, 2005.
 - "*Privacy Technologies for Large Research Databases*"
Spectrum Health and Michigan State University,
Grand Rapids, MI, September 23, 2005.
 - "*Biometrics Alone Won't Do: Developing Holistic Identity Management Solutions*"
Biometrics Symposium 2005,
Arlington, VA, September 19, 2005.
 - "*Risk Assessments of PIN Technologies for Domestic Violence Shelters*,"
National HMIS Conference,
St. Louis, Missouri, September 13, 2005.
 - "*Privacy Technologies for Homeland Security*,"
Testimony before the Privacy and Integrity Advisory Committee of the Department of Homeland Security (DHS),
Boston, MA, June 15, 2005.
 - "*HIPAA Strategies for De-Identifying Patient Data for Research*,"
American Association of Medical Colleges (AAMC),
National Conference, Group on Information Resources, Philadelphia, PA. April 12, 2005.
 - "*Privacy Technology in the Face of Information Warfare*,"
Guest Lecture in Course 19-601, Information Warfare,
Carnegie Mellon University. Pittsburgh, PA. March 29, 2005.
 - "*Privacy Technology: Artificial Intelligence to Save the World*,"
AAAI Spring Symposium (Invited talk).
Stanford. Palo Alto, CA. March 23, 2005.
 - "*Beyond Ickiness is Risk: The Exasperation of Data Privacy Problems by Implanted RFIDs*,"
The Concealed I Conference,
University of Ottawa, Ontario Canada. March 4, 2005.
 - "*Privacy Technology: Computer Scientists Help Save the World*,"

Intel Privacy Forum,
Intel Corporation, Hillsboro, Oregon. March 2, 2005.

- "*Privacy for Those Who Can Afford It*,"
Guest Lecture in Graduate Course 17-899, Technology and Development for 4 Billion,
School of Computer Science, Carnegie Mellon University. Pittsburgh, PA. November 17, 2004.
- "*Tackling Proposals*,"
PhD Program in Computation, Organizations and Society, Graduate Seminar.
School of Computer Science, Carnegie Mellon University. Pittsburgh, PA. November 15, 2004.
- *Privacy Technology for the NCPI*,
Special presentation at a joint meeting of Vanderbilt University and the Center for Automated
Learning and Discovery,
at the School of Computer Science, Carnegie Mellon University. November 4, 2004.
- "*Privacy Technology: The Frontier*,"
13th CACR Information Security Workshop & 5th Annual Privacy and Security Workshop.
University of Toronto, Canada. October 29, 2004.
- "*Tracking Terrorism Using Privacy-Preserving Surveillance*,"
Tracking Terrorism in the 21st Century: A national symposium on the role of Science and Law in
Detecting, Investigating, and Adjudicating Political Violence.
Dusque University School of Law, The Cyril H. Wecht Institute of Forensic Science and Law.
Pittsburgh, PA. October 2004.
- "*Privacy Technology*,"
Access and Privacy Workshop: Connecting citizens and government calls for openness,
transparency and strategy.
Office of the Privacy Commissioner. Toronto, Ontario, Canada. October 2004.
- "*Privacy-Preserving Surveillance*,"
United States Department of Homeland Security:
Directions for the Data Sciences Research Agenda. Alexandria, VA. September 2004.
- "*Privacy Technology: New Directions for Computer Science*,"
CERIAS Seminar Series,
Purdue University. West Lafayette, IN. September 2004.

Eminent Talks and Testimonies (excluding expert witness testimonies in courts)

- "*Risk Assessments of PIN Technologies [identity management] for Domestic Violence Shelters (Updated)*." Housing and Urban Development. Washington, DC November 18, 2005.
- "*Privacy Principles for Ubiquitous Technologies*", Testimony before the European Commission, Brussels, Belgium, October 25, 2005.
- "*Privacy Technologies for Homeland Security*", Testimony before the Privacy and Integrity Advisory Committee of the Department of Homeland Security (DHS), Boston, MA, June 15,

- 2005.
- "*Privacy Technology: The Frontier*", 13th CACR Information Security Workshop & 5th Annual Privacy and Security Workshop. Privacy & Security: Seeking the Middle Path. The University of Toronto, Canada. October 29, 2004.
 - "*Outsourcing and Offshoring Privacy Risks in light of HIPAA*", HIMSS Advocacy Day on the Hill. Washington, DC, 2004.
 - "*Privacy Technology for Bio-terrorism Surveillance*", Testimony before the Technology and Privacy Advisory Committee (TAPAC), a Federal Advisory Committee. My testimony was on the subject of privacy research and the Total Information Awareness Project at DARPA, Washington, DC 2003.
 - "*Privacy-preserving Bio-terrorism Surveillance*", Annual Meeting of the American Association for the Advancement of Science, Seattle, WA 2004.
 - "*Vulnerabilities of Genomic Databases: the risks are real*", Annual Meeting of the American Association for the Advancement of Science, Seattle, WA 2004.
 - "*The De-identification Provision of HIPAA*", American Health Lawyers. Atlanta, GA, 2002.
 - "*Genetic Privacy*", U.S. Senate Committee Congressional Briefing, Washington, DC, 2000. Hosted by Senator Frist (R) and Senator Rockefeller (D).
 - "*Virtual Fingerprints in Medical Data*" and *Technology for Taming Data*, National Library of Medicine, Board of Regents, Washington, DC, 1999.
 - "*Re-Identification of De-Identified Medical Data*", Testimony before the National Center for Vital Health Statistics, on the subject of medical data and privacy (HIPAA), Baltimore, Maryland, 1998.
 - "*Anonymity, Technology and Policy*", Massachusetts Institute of Technology, Congressional Staffer Retreat, Cambridge, MA, 1999.
 - "*Public-use files: production, linking and anonymity*", United States Health Care and Finance Administration, 1998.
 - "*Re-identification of Health Data*", Testimony before the Massachusetts State Healthcare Committee, 1997.

Highly Distinguished Talks (Selected)

- "*How Technology Impacts Humans and Governs our Lives*" Grace Hopper 2016 Conference (Keynote address to 15 thousand attendees). Houston, TX October 19, 2016.
- "*Privacy Technology*", Access and Privacy Workshop: Connecting citizens and government calls for openness, transparency and strategy. Office of the Privacy Commissioner. Toronto, Ontario, Canada. October 2004.
- "*Privacy and the Future of Genomic Research*", Pacific Symposium on Biocomputing, Kauai, HI, 2003. Keynote speaker.
- "*Innovations Possible With Privacy-Enabled Web and Medical Data*", Blue Cross Blue Shield Association of Michigan, Detroit, MI, 2002. Received Privacy Leadership Award.
- "*Medical Privacy in Data and the Role of the Physician*", IPA, Las Vegas, NV 2000.
- "*Rendering Medical Records Sufficiently Anonymous*", California Health Information Association, Sparks, NV, 2000.
- "*Data Privacy Legislation Trends and the Future of Psychiatric Notes*", American Psychiatric Association, Rancho Valencia, CA, 2000.
- "*The Compatibility of Detecting Outbreaks While Protecting Privacy*", State Territorial Epidemiologists, New Orleans, LA, 2000.

- "No Data Privacy in Canada Either", Stakeholders Meeting, Canadian Privacy Council, Ottawa, Canada, 2000.
- "Technology's Challenge to the Privacy of Medical Data", California Medical Association, Executive Retreat, Palm Springs, CA, 1999.
- "Data Linkage, Privacy and Fraud Detection" and "Federal Data Sharing Concerns", Defending Cyberspace, Washington, DC, 1999.
- "Privacy Concerns for Collecting and Sharing Registry Data", North American Association of Central Cancer Registries, Chicago, IL, 1999.
- "Technology's Attack on Privacy", California HealthCare Foundation, Oakland, CA, 1999.
- "The Identifiability of Data", Commission on Cancer, American College of Surgeons. Chicago, IL, 1998.

Non-academic Works by Others that Reference Latanya Sweeney's Work (Selected)

Media References to My Work (Selected from more than 1225)

- Sample of Media reaction to my paper, *Discrimination in Online Ads*, February 2013. ([NBC News](#), [CBS WBZ-TV](#), [Boston Globe](#), [ABC news](#), [BBC](#), [Huffington Post](#), [Technology Review](#), [Wired](#))
- *New York Times*, May 2011, "Data Privacy, Put to the Test" by Natasha Singer ([article](#))
- *Scientific American*, July 2007, "A Little Privacy, Please" by Chip Walter
- *Pittsburgh Post-Gazette*, December 26, 2005, "The Thinkers: Data privacy drives CMU expert's work" ([text](#))
- *CBS News, Denver*, "Angel Protects Those Who Might be Targets for ID Theft," October 20, 2005 ([text](#))
- *CBS News, New York*, "Why A Resume Could Bring A Job, But Also ID Theft: Identity Theft From Online Resumes On The Rise," Septmber 28, 2005 ([text](#))
- *Boston Phoenix* and various affiliates around the USA, February 15, 2005, "Spying Eyes: America's Most Popular Search Engine Is Keeping Tabs On Us" ([text](#))
- *ABC News*, June 13, 2004, "University Web Site Watches Public Spies".
- *CBS News*, Associated Press, March 15, 2004, "Privacy Safeguards Quietly Killed". ([text](#))
- *CNN*, October 11, 2003, "Privacy researcher: Public Web cams troublesome".
- *USA Today*, August 25, 2003, "CameraWatch, Who watches the watchmen?".
- *CBS News*, Associated Press, November 4, 2002, "Germ Patrol: Like Never Before". ([text](#))
- *Computer World*, October 14, 2002, "Privacy Algorithms." ([text](#))
- *Pittsburgh Post-Gazette*, August 15, 2002, "Seeing profits in privacy, recent transplant launches firm to protect individual identities." ([more](#))
- *Wall Street Journal*, February 2001. Author Glen Simpson. Privacy of Census Data.
- *Consumer Reports*, August 2000, Section: Consumer Interest: Health and Medical Records Privacy. "Who knows your medical secrets?" pages 22-26. <http://www.consumerreports.org>
- *Newsweek*, October 16, 2000. "It Doesn't Take Much to Make You Stand Out".
- *Newsday*, November 21, 2000 Section: Health & Discovery, "When Medical Data Goes Public", pages C8-C10, Author Earl Lane (Washington Bureau), <http://library.newsday.com/>
- *National Journal's Technology Daily*, July 14, 2000, "Senator predicts three-pronged medical privacy plan." ([text](#))
- *Wall Street Journal*, February 2001. Author Glen Simpson. Privacy of Census Data.
- 20/20 Television News Magazine [20 second clip regarding pharmacy data]

- *New York Times*, February 16, 2000.
- *ZDNet*, April 7, 1999, "Free speech and privacy forever." ([text](#))
- *Los Angeles Times*, February 8, 1999, "A new push is on for Patients Privacy Law." ([text](#))

Memberships

- American Political Science Association
- American Association for the Advancement of Science
- American Association for Artificial Intelligence
- American Medical Informatics Association
- Association for Computing Machinery
- Institute of Electrical and Electronic Engineers
- International Federation for Information Processing
- Sigma Xi

Teaching Experience

- **Tech Science: From Democracy to Technocracy and Back** We live in a new kind of technocracy a society in which technology design dictates the rules that govern daily life. In the race to construct the latest gadget, app and online service, winning depends on rapid uptake and business success. Losing are social norms and democratic values. This course uses case studies to understand issues, introduces a formal framework to model and reason about technology-society conflicts and then demonstrates the power of scientific experimentation and ability to exploit paradigm shifts as means to a victorious future where society reaps the benefits of technological innovations without sacrificing critical values. 2018-present *Harvard University*
- **Technology Science Practicum** This practicum is a capstone to the Technology Science Program, designed to give students the opportunity to conduct original research and write a publication-ready research paper. In consultation with the instructor, students select a concrete technology-society conflict to address, produce autonomous research to analyze it, and provide a set of actionable recommendations or produce appropriate technology to solve it. Throughout the semester, students receive feedback both from their peers and the instructor to aid the development of their projects. Class meetings include the development of writing schedules, discussions focused on framing, analysis, methodology, and peer-review of student projects. Emphasis is placed on issue spotting, academic story-telling and research framing for maximum impact. The course culminates with a formal presentation of the students' projects and papers. 2013-present *Harvard University*
- **Tech Science to Save the World** This course explores ways to create and use technology to assess and solve real-world societal, political and governance problems. Case studies include twitter, online ads, and surveillance. 2018-present *Harvard University*
- **The Politics of Personal Data.** The course examines legal, political, social, commercial and technical struggles for control over personal data in our globally connected data-rich world. Case studies include data sharing mandated by the state, traded for personal services, and controlled by individuals. Analyses demonstrate ways to think about clashes and the interplay between technology design and

policy.

2013-present *Harvard University*

- **Data Science to Save the World**. This course explores ways to create and use technology to assess and solve real-world societal, political and governance problems. Case studies include twitter, online ads, and surveillance.
2013-present *Harvard University*
- **Technology to Save the World**. This course is a hands-on research lab for first year undergraduate students in which students design and execute scientific experiments that quantify or demonstrate unforeseen consequences of technology.
2016-present *Harvard University*
- **Privacy and Technology**. The course examines how privacy is affected by recent developments in computer technology and critically examines popular concepts of privacy. Engages students in a rigorous analysis of technologies to understand the policy and ethical issues.
2011-present *Harvard University*
- **Technology Dialectics** (graduate), **Constructing Appropriate Technology** (undergraduate). This course teaches students how to infuse cross-disciplinary knowledge into research or technology development to make sure created technology is provably appropriate for a given personal, societal, organizational, and/or legal context.
2007-2009 *Carnegie Mellon University*
- **Privacy Technology**. This course prepares students to conduct research in privacy technology and to develop privacy-enhancing technology in industry.
2006-2009 *Carnegie Mellon University*
- **Computation, Organizations and Society Lab**. Intensive introduction of methods and traditions necessary for doing graduate research in computer science and writing publishable results such that the resulting technology that is the subject of the research is provably appropriate to the setting in which it will be deployed.
2004-2009 *Carnegie Mellon University, School of Computer Science*.
- **Privacy and Anonymity in Data**. Intensive undergraduate and graduate computer science courses providing research experience in data re-identification, privacy technology, and integrated legal and policy issues. Taught as Associate Professor, having about 300 students total.
2000-2006 *Carnegie Mellon University*
- **Java Programming Courses: I, II, and III**. Intensive 3-semester courses that provide mastery of programming in the Java Programming language. Taught as Associate Professor, having about 500 students total. Course materials available on-line and used by students at 10 other schools.
1999-present *Carnegie Mellon University Computer Science Department and MISM and MSIT Program*.
1999-2000 *Harvard University* Distance course. Graduate option.
- **How to Really get Anonymity and Privacy in Data**. Half-day tutorial for professionals.
1999 *American Medical Informatics Association*, Annual meeting. Received best ratings possible in

student evaluations.

- Other computer science courses.
1991-1996 *Harvard University*, Faculty of Arts and Sciences, as Instructor or Head Teaching Fellow. Received 7, on a maximum scale of 7, in student evaluations in each course taught. Taught most of these courses for several semesters, having about 900 students total.
 - Data Structures and Algorithms in C++ (graduate and undergraduate)
 - Data Structures and Algorithms in Pascal (graduate and undergraduate)
 - Great Ideas in Computer Science (undergraduate)
 - Computer science and programming in C (graduate and undergraduate)
 - Computer Architecture (graduate)

Past Students

MS or PhD Thesis Committee Service

- Xiaoqian Jiang.
Ph.D. thesis, Predictions for Biomedical Decision Support, 2010. Committee Chair. Graduate Advisor. Carnegie Mellon University (ISR). On to faculty at UCSD Medical School.
- Ralph Gross.
Ph.D. thesis, Face De-identification Using Multi-Factor Active Appearance Models, 2008. Committee Chair. Graduate Advisor. Carnegie Mellon University (ISR). On to start-up company related to thesis, and part-time faculty at Carnegie Mellon University
- Bradley Malin.
Ph.D. thesis, Trail Re-identification and Unlinkability in Distributed Databases, 2006. Committee Chair. Graduate advisor. Carnegie Mellon University (ISR). Now tenured professor at Vanderbilt University.
- Samuel Edoho-Eket
Masters thesis, Detecting Bio-terrorist Attacks and Naturally Occurring Outbreaks Over a Distributed network While Protecting Privacy and Confidentiality: the PrivaSum Protocol, 2004. Thesis Advisor. Graduate Advisor. Carnegie Mellon University (INI Masters Program). On to national security agency.
- Ralf Holzer
Masters thesis, Email Alias Detection Using Network Analysis, 2005. Thesis Advisor. Carnegie Mellon University (INI Masters Program). On to Deloitte Consulting.
- [Brooke Singer](#)
Masters thesis, Personal Information Made Public, 2002. Co-Thesis Advisor. Carnegie Mellon University (School of Art Masters Program). On to national recognition as an artist, and faculty member at SUNY.

Masters Research

- Edo Airoldi
Masters degree 2003. Statistical Machine Learning. Graduate Advisor. Carnegie Mellon University (ISR). Now tenure-track Associate Professor at Harvard University.

- Laurie Jones
Masters degree 2010. Privacy Technology for Generating Public Use Files. Graduate Advisor. Carnegie Mellon University (ISR).
- Yiheng Li
Masters degree 2003. Generalized Association Rule Learning. Graduate Advisor. Carnegie Mellon University (ISR). On to UC Davis School of Law.
- Elaine Newton
Work on face de-identification. Graduate Advisor. Carnegie Mellon University (EPP). On to NIST.
- Wanhong Xu
Masters Degree 2010. Learning from Inferential Disclosures of Personal Information. Graduate Advisor. Carnegie Mellon University (ISR). On to technical team at Facebook.
- William Malloy
Masters degree 2001. Electronic Disease Surveillance. Carnegie Mellon University (MISM). On to Captain in the U.S. Army.

Undergraduate Research

- Max Weiss
Publication: Weiss M. Deepfake Bot Submissions to Federal Public Comment Websites Cannot Be Distinguished from Human Submissions. Technology Science. 2019121801. December 18, 2019. <https://techscience.org/a/2019121801>.
- Batsheva Moriarty
Publication: Moriarty B. Defeating ISIS on Twitter. Technology Science. 2015092904. September 29, 2015. <https://techscience.org/a/2015092904>.
- Daniel Rothchild
Publication: Rothchild D. Finding Fraudulent Websites Using Twitter Streams. Technology Science. 2015092905. September 29, 2015. <https://techscience.org/a/2015092905>. Most fraud cases at the FTC result from receiving a significant number of consumer complaints, and often the time delay allows fraudsters to relocate before action occurs. This reports how the student developed a monitoring program that searches Twitter in real time for tweets with potentially suspicious links characteristic of fraud. His program found more than 70,000 suspicious tweets in 24 hours, with 56% of the tested links appearing fraudulent. The FTC now uses the approach to detect fraud in real-time, while the fraud occurs.
- Noah Yonack
Publication: Vafa K, Haigh C, Leung A, Yonack N. Price Discrimination in The Princeton Review's Online SAT Tutoring Service. Technology Science. 2015090102. September 01, 2015. <https://techscience.org/a/2015090102>.
- Alvin Leung
Publication: Vafa K, Haigh C, Leung A, Yonack N. Price Discrimination in The Princeton Review's Online SAT Tutoring Service. Technology Science. 2015090102. September 01, 2015.

<https://techscience.org/a/2015090102>.

- Christian Haigh
Publication: Vafa K, Haigh C, Leung A, Yonack N. Price Discrimination in The Princeton Review's Online SAT Tutoring Service. Technology Science. 2015090102. September 01, 2015.
<https://techscience.org/a/2015090102>.
- Keyon Vafa
Publication: Vafa K, Haigh C, Leung A, Yonack N. Price Discrimination in The Princeton Review's Online SAT Tutoring Service. Technology Science. 2015090102. September 01, 2015.
<https://techscience.org/a/2015090102>.
- Stephen Xi
Publication: Wang D, Xi S, Gilheany J. The Model Minority? Not on Airbnb.com: A Hedonic Pricing Model to Quantify Racial Bias against Asian Americans. Technology Science. 2015090104. September 01, 2015. <https://techscience.org/a/2015090104>. In this paper, students identified 101 White and Asian hosts on Airbnb in Oakland and Berkeley in April 2015 and found that on average Asian hosts earn \$90 less per week or 20% less than White hosts for similar rentals. The results led to further inquiries by advocacy groups and Airbnb adopting a new platform that recommends prices.
- David Wang
Publication: Wang D, Xi S, Gilheany J. The Model Minority? Not on Airbnb.com: A Hedonic Pricing Model to Quantify Racial Bias against Asian Americans. Technology Science. 2015090104. September 01, 2015. <https://techscience.org/a/2015090104>. In this paper, students identified 101 White and Asian hosts on Airbnb in Oakland and Berkeley in April 2015 and found that on average Asian hosts earn \$90 less per week or 20% less than White hosts for similar rentals. The results led to further inquiries by advocacy groups and Airbnb adopting a new platform that recommends prices.
- John Gilheany
Publication: Wang D, Xi S, Gilheany J. The Model Minority? Not on Airbnb.com: A Hedonic Pricing Model to Quantify Racial Bias against Asian Americans. Technology Science. 2015090104. September 01, 2015. <https://techscience.org/a/2015090104>. In this paper, students identified 101 White and Asian hosts on Airbnb in Oakland and Berkeley in April 2015 and found that on average Asian hosts earn \$90 less per week or 20% less than White hosts for similar rentals. The results led to further inquiries by advocacy groups and Airbnb adopting a new platform that recommends prices.
- Melissa Hammer
Publication: Hammer M. No More Secrets: Gmail and Facebook can determine your political values. Technology Science. 2015090105. September 01, 2015. <https://techscience.org/a/2015090105>.
- Aran Khanna
Publication: Khanna A. Facebook's Privacy Incident Response: a study of geolocation sharing on Facebook Messenger. Technology Science. 2015081101. August 11, 2015.
<https://techscience.org/a/2015081101>. A couple of years ago industry media reported that Facebook Messenger exposed the geo-location of users widely. In his paper, Aran reports how he built a technology demonstration that showed the geo-locations of Facebook users based on information Facebook Messenger shared. It was downloaded more than 100,000 times. Nine days later Facebook changed its practice.

Publication: Khanna A, Venmoed: Sharing Your Payment Data With the World. Technology Science. 2015102901. October 29, 2015. <https://techscience.org/a/2015102901>.

- Jill Steinman
Publication: Shore J, Steinman J. Did You Really Agree to That? The Evolution of Facebooks Privacy Policy. Technology Science. 2015081102. August 11, 2015. <https://techscience.org/a/2015081102>.
- Jennifer Shore
Publication: Shore J, Steinman J. Did You Really Agree to That? The Evolution of Facebooks Privacy Policy. Technology Science. 2015081102. August 11, 2015. <https://techscience.org/a/2015081102>.
- Grace Gee
Publication: Wang E, Gee G. Larger Issuers, Larger Premium Increases: Health insurance issuer competition post-ACA. Technology Science. 2015081104. August 11, 2015. Version 2. <https://techscience.org/a/2015081104>. In this paper, students studied 34 state health exchanges under the Affordable Care Act and found that the largest insurance company in each state on average increased their rates 75% more than smaller insurers in the same state. The finding caught the attention of the American Hospital Association, the Congressional Subcommittee on Regulatory Reform, Commercial and Antitrust Law, and the Centers for Medicare and Medicaid, which sent an advisory requesting further justifications for rate increases.
- Eugene Wang
Publication: Wang E, Gee G. Larger Issuers, Larger Premium Increases: Health insurance issuer competition post-ACA. Technology Science. 2015081104. August 11, 2015. Version 2. <https://techscience.org/a/2015081104>. In this paper, students studied 34 state health exchanges under the Affordable Care Act and found that the largest insurance company in each state on average increased their rates 75% more than smaller insurers in the same state. The finding caught the attention of the American Hospital Association, the Congressional Subcommittee on Regulatory Reform, Commercial and Antitrust Law, and the Centers for Medicare and Medicaid, which sent an advisory requesting further justifications for rate increases.
- Mohammed Rahman
Publication: Rose M, Rahman M. Who's Paying More to Tour These United States? Price Differences in International Travel Bookings. Technology Science. 2015081105. August 11, 2015. <https://techscience.org/a/2015081105>.
- Michael Rose
Publication: Rose M, Rahman M. Who's Paying More to Tour These United States? Price Differences in International Travel Bookings. Technology Science. 2015081105. August 11, 2015. <https://techscience.org/a/2015081105>.
- William Gronim
Extracting Names from Websites Containing Lists of People, 2006. Research Advisor. Carnegie Mellon University (CSD). On to elite technical team at Amazon.com.
- Daniel Yurovsky
Contactless Capture of Hand Geometry Using Low Resolution Cameras, 2007. Research Advisor. Carnegie Mellon University (CSD). On to graduate school at Indiana University.

- **Ben Vernot**
Linking Databases and Extracting Names, 2003. Research Advisor. Carnegie Mellon University (CSD). On to graduate school in biology at Carnegie Mellon University.

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