

**University of California, Los Angeles**

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Fall 2017

# Privacy and Information Technology

Christine L. Borgman



Available at: <https://works.bepress.com/borgman/412/>

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# *Privacy and Information Technology*

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Fall, 2017, UCLA Information Studies 289-2  
Wednesday, 9am-12:20pm, IS Room 245  
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## **Course Structure and Logistics**

### **Course Description**

Privacy is a broad topic that covers many disciplines, stakeholders, and concerns. This course addresses the intersection of privacy and information technology, surveying a wide array of topics of concern for research and practice in the information fields. Among the topics covered are the history and changing contexts of privacy; privacy risks and harms; law, policies, and practices; privacy in searching for information, in reading, and in libraries; surveillance, networks, and privacy by design; information privacy of students; uses of learning analytics; privacy associated with government data, at all levels of government; information security, cyber risk; and how privacy and data are governed by universities. We will touch on relationships between privacy, security, and risk; on identification and re-identification of individuals; privacy-enhancing technologies; the Internet of Things; open access to data; drones; and other current issues in privacy and information technology.

### **Course Objectives**

The course is intended for graduate students in information studies, social sciences, and technology who are interested in privacy, social behavior, policy, or professional practices. It may also be suitable for graduate students in law, health, humanities, and the many other fields in which privacy issues arise. We will survey professional issues suitable for master's students, and research and scholarly issues suitable to doctoral students.

### **Course Materials**

Two books are required, each widely available in paperback and digital editions: (Lane, Stodden, Bender, & Nissenbaum, 2014; Solove, 2010).

Other readings are linked from or posted in the CCLE site for this course.

### **Office Hours**

Thursdays, 2-4pm. For specific hours and dates, please sign up via the Doodle link: <https://doodle.com/poll/tz254tka689uxz5d>. Other office hours by appointment.

### **Assignments and Grading**

As a graduate seminar, classroom time is devoted to discussion of the readings and presentations by guest speakers. Given the broad array of topics and issues covered in

one term, the reading list is extensive. At the end of each class session, the instructor will introduce the readings for the following week. Students are expected to read all of the required materials in advance of each session, and be prepared to discuss and compare their interpretations. Class participation is graded accordingly. The recommended readings augment the required readings for those who wish more depth on any topic, and as a starting point for developing term papers.

Please note that reading assignments are “front loaded,” with more reading due in the first weeks of the term to lay foundations, and no reading required for Week 10. The last week of the term is devoted to student presentations of their term projects.

Weight of class assignments and activities:

Term paper: 40%

Two short assignments @ 20% each

Class participation: 20%

### *Summary of Assignment due dates*

See individual documents for assignment details

#### Assignment 1: Tracking Online Activities

- October 4, Week 1: Assignment discussed in class.
- Tuesday, Oct 24, Week 4: Report due to CCLE.

#### Assignment 2: Data Breaches

- October 25, Week 4: Assignment discussed in class.
- Tuesday, Nov 21, Week 8: Report due to CCLE.

#### Term Project

- Oct 4 (week 1): Assignment discussed in class.
- Tuesday, Oct 17 (week 3): Proposal due to CCLE.
- Weeks 3-10: Meet with instructor during office hours.
- Tuesday, Nov 14 (week 7). Extended outline and bibliography due to CCLE.
- Dec 6 (week 10): Class presentation.
- Dec 12, 5pm (Tuesday of exam week). Paper due to CCLE.

## **Topics, Readings, and Guest Speakers**

Short descriptions of the readings are presented in each week, with a full list of references at the end of this syllabus.

### **Week 1, Oct 4: Introduction to privacy and information technology**

The course begins with a general overview of privacy in the context of information studies. Privacy is a broad topic that covers many disciplines, stakeholders, and concerns. We will focus on why privacy is so difficult to define concisely, and the history of the context. “Information privacy” will be distinguished from other kinds of privacy. We will also introduce relationships between privacy, security, and risk, while bounding the course discussion at the intersection of privacy and information technology. Week 1 readings are deliberately extensive to frame the course, as we will be returning to these topics throughout the term.

Assignment 1 and Term Project will be discussed in class.

#### **Required readings:**

(Acquisti, 2014) The economics and behavioral economics of privacy (in Lane, et al).

(Solove, 2010) Understanding Privacy [full book is required reading; not linked or posted on CCLE].

(Warren & Brandeis, 1890) The right to privacy.

(“The world’s most valuable resource is no longer oil, but data,” 2017).

#### **Recommended readings:**

(Acquisti, Brandimarte, & Loewenstein, 2015) Privacy and human behavior in the age of information.

(J. E. Cohen, 2000) Examined lives: Informational privacy and the subject as object.

(R. Gellman, 2017) Fair information practices: a basic history.

(Kang, 1998) Information privacy in cyberspace transactions.

(McCreary, 2008) What was privacy?

(Nissenbaum, 2011) A contextual approach to privacy online.

**Week 2, Oct 11: Privacy risks and harms; algorithmic privacy**

In week 2 we address some of the risks and harms to individuals associated with privacy. Privacy can involve matters such as personal safety, health, financial harms, damage to social relationships, academic freedom, and human rights. Many of the individual data points collected may appear harmless on their own, but become much more valuable when aggregated. Algorithms that can collect, mine, and make decisions about people are a growth industry. This week's readings are a multi-disciplinary mix of short and long, drawn from computer science, law, and public policy. Later in the term we will return to questions of cyber-risk and information security.

**Required Readings:**

(Kirkpatrick, 2017) It's not the algorithm, it's the data.

(Kreuter & Peng, 2014) Extracting information from big data: Issues of measurement, inference, and linkage.

(Lane, Stodden, Bender, & Nissenbaum, 2014) Editors' introduction [required book].

(Solove, 2007) 'I've got nothing to hide' and other misunderstandings of privacy.

("Universal Declaration of Human Rights | United Nations,") See especially Article 12 <http://www.un.org/en/universal-declaration-human-rights/>.

**Recommended readings:**

(Berghel, 2014) Privacy informatics: a primer on defensive tactics for a society under siege.

(Calo, 2010) The boundaries of privacy harm.

(Kelley, Cranor, & Sadeh, 2013) Privacy as part of the app decision-making process.

(C. Landwehr, 2016) Privacy research directions.

(Tsai, 2009) The impact of salient privacy information on decision-making.

**Week 3, Oct 18: Privacy law, policies, and practices**

Privacy practices date back centuries, having evolved across countries and cultures. Privacy policies related to information technology began to be codified in the 1960s and 1970s under the general rubric of Fair Information Practices (FIPS). Policies in the U.S. tend to focus on social sectors (e.g., government, business, universities) or types of records (e.g., health, library circulation, video rentals), whereas Europe takes a broader view of a “right to privacy.” This week we will survey these policies to provide a framework for the evolution of privacy practices in an era of “big data,” social media, Internet of Things, cyber hacking, ransomware, and other recent developments. We have two distinguished speakers scheduled, both of whom are at the forefront of privacy law and policy in higher education.

Guest speakers: Amy Blum, Managing Counsel, Legal Affairs, UCLA; [Kent Wada](#), Chief Privacy Officer, UCLA

Weeks 3-10: Meet with instructor during office hours to discuss your term project topic and proposal. We will brainstorm length and include the topic, working title, abstract, outline, preliminary bibliography, and target journal.

Term Paper Proposal due on CCLE by 12:00AM the night before class.

**Required readings:**

(Chin & Lin, 2017) ). China's all-seeing surveillance state is reading its citizens' faces

(Elias, 2014) A European perspective on research and big data analysis.

(“Nowhere to hide: What machines can tell from your face,” 2017)

(Ohm, 2014) Changing the rules: general principles for data use and analysis.

(Solove, 2010) Understanding privacy [read for week 1; please review].

(Strandberg, 2014) Monitoring, datafication, and consent: legal approaches to privacy in the big data context.

(Sullivan, 2017) Your social security number isn't a secret.

(University of California, Office of the President, 2017b) EU General Data Protection Regulation; 1-page summary of recommendations to universities

Review these major privacy policy documents:

(EU Data Directive, 2016) Directive (EU) 2016/680 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data by competent authorities for the purposes of the prevention, investigation, detection or prosecution of criminal offences or the execution of criminal penalties, and on the free movement of such data, and repealing Council Framework Decision 2008/977/JHA (2016). Retrieved from <http://data.europa.eu/eli/dir/2016/680/oj>.

(Family Educational Rights and Privacy Act of 1974, n.d.) e-CFR: Title 34: Education, Title 34: Education, and Electronic Code of Federal Regulations § Part 99—Family Educational Rights and Privacy. Retrieved from <https://www.ecfr.gov/cgi-bin/text-idx?rgn=div5&node=34:1.1.1.1.33>.

(*Fair Information Practice Principles (FIPPS) | Homeland Security*, 2008). Retrieved from [https://www.dhs.gov/xlibrary/assets/privacy/privacy\\_policyguide\\_2008-01.pdf](https://www.dhs.gov/xlibrary/assets/privacy/privacy_policyguide_2008-01.pdf).

(Health Insurance Portability and Accountability Act of 1996, 1996) An act to amend the Internal Revenue Code of 1986 to improve portability and continuity of health insurance coverage in the group and individual markets, to combat waste, fraud, and abuse in health insurance and health care delivery, to promote the use of medical savings accounts, to improve access to long-term care services and coverage, to simplify the administration of health insurance, and for other purposes., Pub. L. No. 104–191 (1996). Retrieved from <https://www.gpo.gov/fdsys/pkg/PLAW-104publ191>.

(“Personal Privacy in an Information Society: The Report of The Privacy Protection Study Commission,” 1977) Personal Privacy in an Information Society: The Report of The Privacy Protection Study Commission. (1977, July). Retrieved August 11, 2017, from <https://epic.org/privacy/ppsc1977report/>.

(“Rules and Policies - Protecting PII - Privacy Act,” n.d.) Rules and Policies - Protecting PII - Privacy Act. (n.d.). Retrieved from <https://www.gsa.gov/portal/content/104256>

Recommended readings:

(Allen & Rotenberg, 2015) Privacy, law, and society.

(Bamberger & Mulligan, 2011) Privacy on the books and on the ground.

(Cranor, 2012) Necessary but not sufficient: standardized mechanisms for privacy notice and choice.

(Leon et al., 2011) Why Johnny can't opt out: A usability evaluation of tools to limit online behavioral advertising (Revised May 10, 2012).

(Lessig, 2000) Code: and other laws of cyberspace.



(Office of the Press Secretary, The White House, 2012) Fact sheet: plan to protect privacy in the internet age by adopting a consumer privacy bill of rights.

(Reidenberg et al., 2014) Disagreeable privacy policies: mismatches between meaning and users' understanding.

(Rotenberg, 2016) Privacy law sourcebook 2016.

(Solove & Hartzog, 2013) The FTC and the new common law of privacy.

**Week 4, Oct 25: Information searching, reading, and libraries**

Individual privacy is at risk when searching for information; reading online or downloading files; reading documents on eReaders; or purchasing or borrowing books and materials. Libraries established an ethic of protecting the information seeking and reading behaviors of their patrons long before digital technology and information networks. State laws that protect library circulation records, for example, do not transfer easily to electronic publishing and ebooks. Similarly, the "right to read anonymously" has been eroded in the current marketplace for digital content, including scholarly and trade publishing. This week will survey the past, present, and potential future of privacy exposure and protection in the course of searching and reading, especially as they apply to broader social concerns in access to information. Our readings include a classic legal article and an extensive new analysis of the current environment of library privacy.

Assignment 1 due on CCLE by 12:00AM the night before class.

Assignment 2 will be discussed in class.

**Required readings, organized by category:**

*Library privacy issues:*

(J. E. Cohen, 1997) A right to read anonymously: a closer look at "copyright management" in cyberspace.

(Harper & Oltmann, 2017) Big data's impact on privacy for librarians and information professionals.

(Lynch, 2017) The rise of reading analytics and the emerging calculus of reader privacy in the digital world.

*FBI Library Awareness Program:*

(Ault, 1990) The FBI's library awareness program: is big brother reading over your shoulder?

(Bowers, 2006) Privacy and library records.

(H. Cohen & Minow, 2006) Intellectual freedom in libraries: then and now.

*Library, information, and archives codes of conduct:*

(ALA, 2006) Privacy: an interpretation of the library bill of rights.

(ARMA, n.d.) Code of professional responsibility.

(SAA, n.d.) Core values statements and code of ethics.

(SLA, n.d.) SLA Professional ethics guidelines.

Sites to visit:

("EPIC - Electronic Privacy Information Center," n.d.) <https://www.epic.org/>.

("Freedom to Read Foundation," n.d.) <http://www.ft rf.org/>.

Recommended readings:

(Library Bytegeist, n.d.) #6 Talking privacy with librarians.

**Week 5, Nov 1: Surveillance, Networks, and Privacy by Design**

The ability to surveil individuals in their daily activities is among the most common threats to privacy. Early designs of computer networks focused much more on efficiency than on security and privacy, as these were not considered significant threats at the time. Recent work to redesign computer networks, such as progress on Named Data Networks, and design of new applications, devices, and protocols to enhance privacy are necessary – if rarely sufficient – steps toward more private and secure online activities. We will touch on the use of technical devices to observe individuals in public and private spaces, such as drones and security cameras, as these also create digital records.

Prof. Shilton, our guest speaker for this week, conducts research on ethics, values, and design of privacy enhancing computer networks.

Guest speaker (by video): [Prof. Katie Shilton](#), University of Maryland

Required readings:

(Bennett, 2010) Privacy advocates and surveillance; Introduction and chapter 1, p. ix-23.

(Cavoukian, 2011) Privacy by design: The 7 foundational principles.

(Doe, 2014) With genetic testing, I gave my parents the gift of divorce.

(Greene & Shilton, 2017) Platform privacies: governance, collaboration, and the different meanings of “privacy” in iOS and Android development.

(Harris, 2013) Privacy on the go - recommendations for the mobile ecosystem.

(Klarreich, 2012) Privacy by the numbers: a new approach to safeguarding data.

(Mulligan, Koopman, & Doty, 2016) Privacy is an essentially contested concept: a multi-dimensional analytic for mapping privacy.

(Rubinstein & Good, 2012) Privacy by design: a counterfactual analysis of Google and Facebook privacy incidents.

(Stark, 2016) UC Unmanned Aircraft System Safety | UCOP.

Recommended readings:

(Acquisti, Gross, & Stutzman, 2014) Face recognition and privacy in the age of augmented reality.

(Angwin, 2014) Dragnet nation: a quest for privacy, security, and freedom in a world of relentless surveillance.

(B. Gellman & Soltani, 2013) NSA collects millions of e-mail address books globally.

(Bamberger & Mulligan, 2015) Privacy on the Ground: Driving Corporate Behavior in the United States and Europe.

(Bamford, 2014) Edward Snowden: the untold story.

(Bennett, 2010) The privacy advocates: resisting the spread of surveillance.

(Fung, Wang, Chen, & Yu, 2010) Privacy-preserving data publishing: a survey of recent developments.

(Greenwald, MacAskill, Poitras, Ackerman, & Rushe, 2013) Microsoft handed the NSA access to encrypted messages.

(Gymrek, McGuire, Golan, Halperin, & Erlich, 2013) Identifying personal genomes by surname inference.

(Jarvis, 2014) National park system unmanned aircraft – interim policy.

(Mayer, 2012) Third-party web tracking: policy and technology.

(Montjoye, Radaelli, Singh, & Pentland, 2015) Unique in the shopping mall: On the reidentifiability of credit card metadata.

(Schneier, 2000) Secrets and lies: digital security in a networked world.

(Schneier & Banisar, 1997) The electronic privacy papers: documents on the battle for privacy in the age of surveillance.

(Shilton, 2009) Four billion little brothers?: privacy, mobile, phones, and ubiquitous data collection.

(Shilton, Burke, Claffy, & Zhang, 2016) Named data networking; CACM

(Shilton & Greene, 2017) Linking platforms, practices, and developer ethics: levers for privacy discourse in mobile application development.

(Timberg, 2014) For sale: Systems that can secretly track where cellphone users go around the globe.

(Wang et al., 2011) "I regretted the minute I pressed share": A qualitative study of regrets on Facebook.

### **Week 6, Nov 8: Privacy in the Internet of Things**

The *Internet of Things*, also called the *Internet of Everything*, has been emergent for a decade or two. The general idea is that most “things,” from thermostats to children’s toys, will be connected to the Internet, each with its own unique identifier. Such technologies are sufficiently advanced that many of today’s technologies are internet-enabled, often sending information in the background. Consumers may be unaware of the information that their devices know them, or about the information being delivered to manufacturers, stores, or third-party vendors. Once networked, these data can be combined to build rich profiles of individuals, households, workplaces, and companies. Similarly, these devices are being hacked as they were not designed with security in mind. Voice controlled systems such as Amazon Echo / Alexa and Google Home offer convenience at an unknown price for privacy.

#### **Required readings:**

(Berman & Cerf, 2017) Social and ethical behavior in the internet of things.

(Burns, Johnson, & Honeyman, 2016) Medical device security.

(Lindqvist & Neumann, 2017) The future of the internet of things.

(Peppet, 2014) Regulating the internet of things: first steps toward managing discrimination, privacy, security, & consent.

(Madrigal, 2017) The mysterious printer code that could have led the FBI to Reality Winner.

(Spinks, 2017) Using a physical fitness app taught me the scary truth about why privacy settings are a feminist issue.

Baby Monitors and Alexa (read at least two of these):

(Darrow, 2017) Amazon may share your Alexa conversations with developers.

(Barrett, 2017) Amazon's 'Echo Look' could snoop a lot more than just your clothes.

(Edwards, 2017) Alexa takes the stand: listening devices raise privacy issues.

(Edwards, 2016) How web cams helped bring down the internet, briefly.

(Jordan, 2016) From toasters to baby monitors, IoT's role in cyberattacks.

(Moynihan, 2016) Alexa and Google home record what you say. But what happens to that data?

Recommended readings:

(Dutton & Borgman, 2014) Society and the Internet of Things.

(Howard, 2015) How the Internet of Things may set us free or lock us up.

**Week 7, Nov 15: Privacy and Government Data**

Early concerns about privacy and surveillance in databases focused on government information. While much of the concern has shifted to business surveillance, government information on individuals and individuals' access to government information continue to raise substantial privacy issues. New uses of government information, such as city services to customize public transportation based on transit patterns, pose new kinds of tradeoffs in access and privacy. Prof. Washington is an expert on government information, information retrieval, and access to information by and about government.

Guest speaker: [Prof. Anne Washington](#), School of Public Policy, George Mason University and Visiting Fellow, Data and Society

Term paper extended outline and bibliography due on CCLE by 12:00AM the night before class.

Required readings:

(Ardia & Klinefelter, 2015) Privacy and court records.

(Goerge, 2014) Data for the public good: challenges and barriers in the context of cities.

(Koonin & Holland, 2014) The value of big data for urban science.

(McCarthy & Yates, 2010) The use of cookies in Federal agency web sites: privacy and recordkeeping issues.

(R. Gellman, 1995) Public records—access, privacy, and public policy.

(Washington, 2014) Government information policy in the era of big data.

Recommended Readings:

(Agre, 1994) Surveillance and capture: two models of privacy.

(Bamford, 2007) Body of secrets: anatomy of the ultra-secret National Security Agency: from the Cold War through the dawn of a new century.

(Bamford, 2014) Edward Snowden: The untold story.

(Bamford, 2017) Washington's ministry of preemption.

(Munson et al., 2012) Sunlight or sunburn: a survey of attitudes toward online availability of US public records.

(Ramirez, 2016) Protecting consumer privacy in the digital age: reaffirming the role of consumer control.

(Solove, 2001) Access and aggregation: public records, privacy and the constitution.

(Yaco, 2010) Balancing privacy and access in school desegregation collections: a case study.

**Week 8, Nov 22: Privacy, Information Security, and Cyber Risk**

Security and risks to privacy is a huge area of study and practice. For the purposes of this week's discussion, we narrow the scope to focus on threats to information privacy and ways to mitigate those threats through practice, policy, and technology. We consider anonymity, confidentiality, and reidentification, and address relationships between privacy and security. Additional background material on data breaches is provided in Assignment 2.

Assignment 2 due on CCLE by 12:00AM the night before class.

**Required Readings:**

(Barocas & Nissenbaum, 2014) Big data's end run around anonymity and consent.

(Kerr & Reiter, 2014) Using statistics to protect privacy.

(Montjoye et al., 2015) Unique in the shopping mall: on the reidentifiability of credit card metadata.

(Minow, 2002) The USA PATRIOT Act.

(Relyea, 2004) Homeland security and information sharing: federal policy considerations.

(S. J. Landwehr, 2014) Engineered controls for dealing with big data.

(Schneier, 2000) Secrets and Lies: Digital Security in a Networked World, Preface, Chapter 1 (introduction), Chapter 2 (threats).

(Sweeney, 2013) Matching known patients to health records in Washington State data.

("UCOP Privacy and Information Security Initiative," 2013)

(Wilbanks, 2014) Portable approaches to informed consent and open data.

**Recommended Readings:**

(Dwork, 2014) Differential privacy: a cryptographic approach to private data analytics.

(Kugler, 2015) Online privacy: regional differences.

(Mason, 1986) Four ethical issues of the information age

(Treese, 2005) Once collected, data isn't private.

(Vascellaro, 2010) Google agonizes on privacy as ad world vaults ahead.

**Week 9, Nov 29: Governing Privacy in the University**

Universities face a complicated array of privacy issues. While they are as responsible for protecting the privacy of students, faculty, staff, and other constituents as are schools, businesses, government agencies, and other organizations, they also are concerned about academic freedom, free speech, intellectual freedom, and transparency. Universities have extensive reporting responsibilities to state and federal agencies, accreditation bodies, funding sources, and other entities. Universities also are rich targets for hacking and data breaches. Universities tend to be open by design, welcoming students, visitors, and partners from around the world, yet must protect some of their information (and computer networks) as securely as do banks. They maintain protected spaces for intellectual pursuit, including research and scholarship that maybe closely held until the time of publication. Yet they also are subject to open records laws and to funding agency requirements for open access to publications and data.

Universities, colleges, and K-12 schools collect vast amounts of data on their students. These include not only courses and grading, but may include transactions associated with learning management systems (e.g., CCLE), student ID cards (e.g., library, food services, debit records, spending, door access), social media, and more. Universities have come to recognize the value in aggregating these data to make decisions about student progress, problems, and success. Private companies also wish to have access to data about students. Companies and other third parties are acquiring student data directly via their own services or through partnerships with universities. Exploiting these data effectively and ethically, while maintaining student privacy rights, is a frontier concern of privacy protection.

The University of California is a leader in addressing this complex array of privacy and security issues, and several of the UC-wide initiatives in this area began at UCLA. This week we will read several notable reports from these initiatives and discuss current issues with UCLA's Chief Privacy Officer.

Guest speaker: [Kent Wada](#), Chief Privacy Officer, UCLA

Required readings; general, plus read those in the sections below:

("Data Governance Task Force: Final report and recommendations," 2016)

(Ho, 2017) Naked in the Garden

(Powles & Hodson, 2017) Google DeepMind and healthcare in an age of algorithms

(Ritvo, 2016) Privacy and student data: an overview of federal laws impacting student information collected through networked technologies.



(Selinger, 2015) With big data invading campus, universities risk unfairly profiling their students

(UCLA Academic Personnel Office, 2012) Scholarly Research and Public Records Requests

(UCLA Office of the Chancellor, 2014) Public records requests policy

*Readings on academic freedom:*

(Cole, 2016) The triumph of America's research university.

(Schram, 2014) The future of higher education and American democracy: introduction.

*Readings on role of chief privacy officers in organizations:*

(Nathan, 2017) A day in the life of a chief privacy officer.

(Vogel, 2015) The chief privacy officer in higher education.

*Asilomar conferences on learning analytics and student privacy:*

("The Asilomar Convention for Learning Research in Higher Education," 2014)

("Home | Asilomar II: Student Data and Records in the Digital Era," 2016)

Recommended Readings:

(Biemiller, 2017) Big data for student success still limited to early adopters.

(Borgman, 2017) Academic senate engagement in governance of IT and cyber risk.

(Brown, 2017) Where every student is a potential data point.

(Daniel, 2017) Big data in higher education: the big picture.

(Electronic Privacy Information Center, n.d.) EPIC - EPIC student privacy project.

("Family Educational Rights and Privacy Act (FERPA)," 2015)

(Gasser, Solow-Niederman, & Nolan, 2013) Student privacy in the cloud computing ecosystem - state of play & potential paths forward.

(Greenwood, Stopczynski, Sweatt, Hardjono, & Pentland, 2014) The new deal on data: a framework for institutional controls. (In Lane, et al)

(Ren & Li, 2013) Academic freedom and university autonomy: a higher education policy perspective.

(Rotenberg, 2013) Amassing student data and dissipating privacy rights.

(Stodden, 2014) Enabling reproducibility in big data research: balancing confidentiality and scientific transparency. (In Lane, et al)

(University of California, Office of the President, 2017a) Appendix on Data Security and Privacy

**Week 10, Dec 6: Course wrapup, Student presentations**

We will use the last session of the term to learn from the students in the course. Student term paper topics will be grouped into panel sessions. Each student will present issues from his or her paper in 5 to 7 minutes, with discussion at the end of each panel session. We will conclude with a general summary of the topics covered in the course.

**Exam Week, Dec 12**

5pm (Tuesday). Paper due to CCLE.

**Other course background material:**

(Agre & Rotenberg, 1997) Technology and privacy: the new landscape.

(Bennett & Raab, 2006) The governance of privacy: policy instruments in global perspective.

(Diffie & Landau, 2007) Privacy on the line: the politics of wiretapping and encryption.

(Gymrek et al., 2013) Identifying personal genomes by surname inference.

(Rosen, 2001) The unwanted gaze: the destruction of privacy in America.

(Smith, 2004) Ben Franklin's web site: privacy and curiosity from Plymouth Rock to the Internet.

(Zittrain, 2009) The future of the Internet--and how to stop it.

**References:**

- Acquisti, A. (2014). The economics and behavioral economics of privacy. In J. Lane, V. Stodden, S. Bender, & H. Nissenbaum (Eds.), *Privacy, Big Data, and the Public Good: Frameworks for Engagement* (1 edition, pp. 76–95). New York, NY: Cambridge University Press.
- Acquisti, A., Brandimarte, L., & Loewenstein, G. (2015). Privacy and human behavior in the age of information. *Science*, 347(6221), 509–514.
- Acquisti, A., Gross, R., & Stutzman, F. (2014). Face recognition and privacy in the age of Augmented Reality. *Journal of Privacy and Confidentiality*, 6(2), 1–20.
- Agre, P. E. (1994). Surveillance and capture: Two models of privacy. *The Information Society*, 10(2), 101–127.
- Agre, P. E., & Rotenberg, M. (Eds.). (1997). *Technology and Privacy: The New Landscape* (First Edition edition). Cambridge, Mass: The MIT Press.
- ALA. (2006, July 7). Privacy: An interpretation of the Library Bill of Rights [Text]. Retrieved from <http://www.ala.org/advocacy/intfreedom/librarybill/interpretations/privacy>
- Allen, A., & Rotenberg, M. (2015). *Privacy Law and Society* (3 edition). St. Paul, MN: West Academic Publishing.
- An act to amend the Internal Revenue Code of 1986 to improve portability and continuity of health insurance coverage in the group and individual markets, to combat waste, fraud, and abuse in health insurance and health care delivery, to promote the use of medical savings accounts, to improve access to long-term care services and coverage, to simplify the administration of health insurance, and for other

- purposes., Pub. L. No. 104–191 (1996). Retrieved from  
<https://www.gpo.gov/fdsys/pkg/PLAW-104publ191>
- Angwin, J. (2014). Chapter 2. In *Dragnet Nation: A Quest for Privacy, Security, and Freedom in a World of Relentless Surveillance*. New York: Times Books.
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