Privacy, Learning Analytics & Big Data Resources

- Learning Analytics Community Exchange (LACE) Articles and Conference Publications
- UC Summit on Analytics for Institutional & Student Success (January 2016)
- 7 Things You Should Know About … How Learning Data Impacts Privacy (Educause, May 12, 2017)
- Algorithms can be more fair than humans (August 2016)
- Academic Analytics (EDUCAUSE)
- Analytics in Higher Education: Benefits, Barriers, Progress, and Recommendations (EDUCAUSE)
- Benefit-Risk Analysis for Big Data Projects (Future of Privacy Forum, 2014)
- Big Data: A Tool for Inclusion or Exclusion? Understanding the Issues (Federal Trade Commission (January 2016)
- Big Data Analysis in Higher Education: Promises and Pitfalls (Educause, August 2016)
- Big Data and data protection (UK Information Commissioner’s Office)
- Big Data and Differential Pricing (White House)
- Big Data Ethics (Wake Forest Law Review, 2014)
- Big Data in the Campus Landscape: Security and Privacy (ECAR Campus Cyberinfrastructure (ECAR-CCI) Working Group, July 2015)
- Big Data: Seizing Opportunities, Preserving Values (White House)
- Big Data: Seizing Opportunities, Preserving Values - Interim Report (White House)
- Big Data and the Future of Privacy (White House)
- Big Data and Innovation, Setting the Record Straight: De-identification Does Work (Information Technology & Innovation Foundation)
- Big Data and Privacy: A Technological Perspective (White House)
- Big Data for All: Privacy and User Control in the Age of Analytics (Northwestern Journal of Technology and Intellectual Property)
- Big Data in the Campus Landscape (Educause ECAR Working Group Papers, 2014-15)
- Changing Records of Learning through Innovations in Pedagogy and Technology (Educause Review, March 2016)
- Code of practice for learning analytics (Jisc)
- Data Privacy Guidebook: Data Privacy Guidelines and Tips for Personalized Learning
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(Fagen, Friedman & Fulcroft)
- Data Protection Principles for the 21st Century (Oxford Internet Institute)
- ECAR Study of Undergraduate Students and Information Technology, 2013 (EDUCAUSE)
- ECAR Study of Undergraduate Students and Information Technology, 2015 (EDUCAUSE)
- Educational Technology Research and Development, Special Issue: Exploring the Relationship of Ethics and Privacy in Learning Analytics and Design: Implications for the Field of Educational Technology (Volume 64, Issue 5, October 2016)
- Ethical and privacy issues in the design of learning analytics applications (Proceedings of the Sixth International Conference on Learning Analytics & Knowledge 2016)
- Ethics, Big Data, and Analytics: A Model for Application (EDUCAUSE)
- Ethics and Privacy in Learning Analytics (Finding Knowledge Blog)
- Ethical use of Student Data for Learning Analytics Policy (Open University)
- Evaluating the privacy properties of telephone metadata (Proceedings of the National Academy of Sciences, April 2016)
- From Bricks to Clicks - The Potential of Data and Analytics in Higher Education (UK Higher Education Commission, January 2016)
- Future of Big Data (Pew Research)
- Guide to Student Data Privacy (edSurge)
- How Big Data Harms Poor Communities (The Atlantic, April 2016)
- Institutional Analytics Is Hard Work: A Five-Year Journey (Educause, August 2016)
- IMS Global Learning Data & Analytics Key Principles
- ACM U.S. Public Policy Council Statement on Algorithmic Transparency and Accountability
- Journal of Learning Analytics: Special section on ethics and privacy in learning analytics (Vol 3, No 1 (2016))
- Judged by the Tin Man: Individual Rights in the Age of Big Data (Journal of Telecommunications and High Technology Law)
- Learning Analytics in Higher Education (ECAR, Feb. 2016)
- Learning to be Watched: Surveillance Culture at School (National Education Policy Center, May 2016)
- The Learning Analytics Landscape: Tension Between Student Privacy and the Process of Data Mining (Carnegie Foundation for the Advancement of teaching, November 2015)
- Making Analytics Accessible, Understandable, and Actionable (Educause Review, October 2016)
● **Moving the Heart and Head: Implications for Learning Analytics Research** (Educause Review, July 2017)
● **Pedagogy and the Logic of Platforms** (Educause Review, July 2017)
● **Personalized Learning as a Team Sport: What IT Professionals Need to Know** (Educause Review, April 2016)
● **A Precautionary Approach to Big Data Privacy** (Computers, Privacy & Data Protection Conference Proceedings)
● **Predictive Analytics: Nudging, Shoving, and Smacking Behaviors in Higher Education** (Educause, August 2016)
● **Predictive Analytics in Higher Education: Five Guiding Practices for Ethical Use** (New America)
● **Predictive Analytics Reporting Framework**
● **The Predictive Learning Analytics Revolution: Leveraging Learning Data for Student Success** (ECAR/ELI Working Group)
● **Principles for Government Data Mining: Preserving Civil Liberties in the Information Age** (Constitution Project)
● **The Precision Medicine Initiative and Privacy: Will Any Legal Protections Apply?** (World Privacy Forum, May 2016)
● **Privacy and Analytics – it’s a DELICATE Issue: A Checklist for Trusted Learning Analytics** (Proceedings of the Sixth International Conference on Learning Analytics & Knowledge 2016)
● **Privacy - “Big Data is not a game played by different rules”** (Morrison & Foerster)
● **Privacy and Big Data** (ISACA)
● **Privacy and Big Data** (Stanford Law Review)
● **Privacy and Cloud Computing in Public Schools** (Fordham Center on Law and Information Policy)
● **Privacy In the Age of Analytics: Report of a CNI Executive Roundtable** (CNI, August 2016)
● **Privacy in the Age of Big Data** (NASPA)
● **Privacy and Ethics of Learning Analytics** - Video (University of Sydney, 2013)
● **Privacy Regulation: Culturally Universal or Culturally Specific** (Journal of Social Issues, Vol. 33, No.3, 1977)
● **Privacy Self Management and the Consent Dilemma** (Harvard Law Review)
● **Privacy Tools for Sharing Research Data** (Berkman Center - Harvard)
● **The Promise of Learning Data Interoperability** (Educause Review, July 2017)
● **Responsible Use of Student Data in Higher Education** (Stanford CAROL & Ithaka S+R)
• The Scoring of America: How Secret Consumer Scores Threaten Your Privacy and Your Future (World Privacy Forum, April 2, 2014)
• The Structural Consequences of Big Data-Driven Education (Big Data, Big Data. June 2017, 5(2): 164-172)
• Student Data Principles
• Supplement or Replacement: Exploring the Role of AI in Teaching and Learning (Educause Review, April 2017)
• Taxonomy of ethical, legal and logistical issues of learning analytics v1.0 (Jisc, March 2015)
• UC Summit on Analytics for Institutional & Student Success (January 2016)
• UC Learning Data Privacy Principles and Practices - v.12 (April 16, 2016)
• UCSC Datalex Privacy, Big Data, and the Law symposium
• Unlocking the Value of Personal Data: From Collection to Usage (World Economic Forum)
• An Updated Privacy Paradigm for the “Internet of Things” (Future of Privacy Forum)
• White House Precision Medicine Initiative: Privacy and Trust Principles (White House)

Learning Analytics Privacy & Big Data in the News
• Big Data Is Getting Bigger. So Are the Privacy and Ethical Questions (Chronicle of Higher Education, 7/31/18)
• Balancing the benefits of location data with privacy protection (IAPP, 2/6/18)
• Machines Taught by Photos Learn a Sexist View of Women (Wired, 8/21/17)
• Should big data be used to discourage poor students from university? (ZdNet, July 7/12/17)
• Chan-Zuckerberg to Push Ambitious New Vision for Personalized Learning (Education Week, 6/29/17)
• The Silicon Valley Billionaires Remaking America’s Schools (New York Times, 6/9/17)
• Ethical Use of Predictive Analytics in Higher Education (New America, 5/9/17)
• The New Student ID (Inside Higher Ed, 5/9/17)
• New report says tech companies spy on students in school (CNN, 4/17/18)
• Minority Neighborhoods Pay Higher Car Insurance Premiums Than White Areas With the Same Risk (Pro Publica, April 5, 2017)
• Will Democracy Survive Big Data and Artificial Intelligence? (Scientific American, 2/25/17)
• The six big privacy concerns for edtech (edscoop.com, 2/23/18)
• Will You Graduate? Ask Big Data (New York Times, 2/2/17)
• **Consenting Adults? Privacy in an Age of Liberated Learning Data** (Eduteach, 1/30/17)
  https://edscoop.com/six-privacy-concerns-for-edtech

• **What happens when an algorithm is sexist? New guidelines seek accountability** (IT World Canada, 1/17/17)

• **The Monitoring of Student-Athletes’ Social Media and Its Invasion of Privacy** (The Arkansas Traveller, 1/17/17)

• **Coaching software let's University of Michigan tailor help to students** (Detroit Free Press, 11/30/16)

• **Keeping Bias Out of Big Data (And Other Key Considerations)** (Government Technology, 11/18/16)

• **University Responses to Piazza: Some good, some bad, some web site changes**
  (e-Literate, 11/21/16)

• **Piazza Response To Blog Post On Student Privacy** (e-Literate, 11/13/16)

• **Popular Discussion Platform Piazza Getting Pushback For Selling Student Data**
  (e-Literate, 11/10/16)

• **Pursuing Academic Freedom and Data Privacy Is a Balancing Act** (EdSurge, 10/26/16)

• **Data-Informed Learning Environments** (Educause Review, 10/17/16)

• **Practicing Privacy: Insights from Edtech Lawyer Gretchen Shipley** (EdSurge, 10/17/16)

• **Group Unveils a 'Model Policy' for Handling Student Data** (Chronicle of Higher Education, 9/6/16)

• **The Unpredictability of Predictive Analytics 2.0** (Educause, August 22, 2016)

• **As Big Data Comes to College, Officials Wrestle to Set New Ethical Norms** (Chronicle of Higher Education, 6/28/16)

• **Preparing for 'Era of Data Ubiquity'** (Inside Higher Ed, June 28, 2016)

• **Bartering for science: using mobile apps to get research data** (The Conversation, June 26, 2106)

• **States scramble to protect student data and privacy** (PBS, June 9, 2016)

• **Privacy advocates accuse Obama administration of failing to properly protect student data** (Washington Post, June 7, 2016)

• **Setting the record straight on privacy dimensions in big data** (IAPP, June 2, 2016)

• **How Should Companies Handle Data From Employees' Wearable Devices?** (Wall Street Journal, 5/22/16)

• **There Is No Such Thing as “Public” Data** (Slate, 5/19/16)

• **OkCupid Study Reveals the Perils of Big-Data Science** (Wired, 5/14/16)

• **Refusing to Be Measured** (May 11, 2016)

• **Student Data Privacy: Going Beyond Compliance** (NASBE, May 2016)

• **Responsible Use of Student Data** (Ithaka+SR, 4/2/16)

• **Colleges Must Educate Students About Commercial Uses of Personal Data** (Chronicle of Higher Education, 2/2/16)
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- Big Data's Coming Of Age In Higher Education (Forbes, 1/29/16)
- ORU freshmen are all wearing fitness trackers in pioneer program (Tulsa World, 1/7/16)
- Students' online privacy needs protection from data mining (MLive, 12/9/15)
- Will Big Data lead to Big Brother? (BBC, 2015/11/17)
- The Ethics Conversation We’re Not Having About Data (Harvard Business Review, 2015/11/12)
- Precision Medicine: 'Big Data' Security, Privacy Concerns (GovInfoSecurity, 2015/10/01)
- Researchers wrestle with a privacy problem (Nature, 2015/09/22)
- College kids have too much privacy (Op-Ed, Los Angeles Times, 2015/09/15)
- Tools for Tailored Learning May Expose Students' Personal Details (New York Times, 2015/08/30)
- Privacy in the age of Big Data (Leadership Exchange, Summer 2015)
- No Child Left Un-mined? Student Privacy at Risk in the Age of Big Data (The Intercept, 2015/06/27)
- When Big Data Meets the Blackboard (The Atlantic, 2015/06/22)
- When Guarding Student Data Endangers Valuable Research (New York Times, 2015/06/13)
- The Quantified Student: An App That Predicts GPA (NPR, 2015/06/02)
- Which Students Get to Have Privacy? (Message is the Medium, 2015/05/22)
- Protecting student data in a digital world (McKinsey & Co., 2015/04)
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- If Algorithms Know All, How Much Should Humans Help? (New York Times, 2015/04/06)
- No Expectation of Privacy (Inside Higher Ed, 2015/03/25)
- Privacy Pitfalls as Education Apps Spread Haphazardly (New York Times, 2015/03/12)
- Unleashing the Power of Data to Serve the American People - Memo from U.S. CTO for Data Policy and Chief Data Scientist (White House, 2015/2/19)
- Rutgers online facial recognition system presents major privacy risk (Daily Targum, 2015/02/12)
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- Hey, Students Are Consumers, Too (Educause, 2015/02)
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- How Data-Driven Learning is Changing Education (Government Technology, 2014/11/11)
- Harvard Researchers Used Secret Cameras to Study Attendance. Was That Unethical? (Chronicle of Higher Education 2014/11/06)
- Harvard secretly photographed students to study attendance (Boston Globe, 2014/11/05)
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- Tackling the Risks of Big Data (IAPP, 2014/09/24)
- Some Advice on How To Handle Big Data (IAPP, 2014/08/26)
- As Data Overflows Online, Researchers Grapple With Ethics (New York Times, 2014/08/12)
- SACUA addresses the release of student data for research (Michigan Daily, 2014/08/11)
- Can Universities Use Data to Fix What Ails the Lecture? (Chronicle of Higher Education, 2014/08/11)
- Children’s Education Data: The Next Frontier and the Battlegrounds Ahead (IAPP, 2014/08/01)
- How Data Mining Threatens Student Privacy (Congressional Subcommittee on Cybersecurity, Infrastructure Protection, and Security Technologies, 2014/06/25)
- The Plight of Student Privacy in the Age of Ed Tech (IAPP, 2014/06/17)
- What Parents Need To Know About Big Data And Student Privacy (NPR, 2014/05/16)
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- Big Data Can Mean Big Dilemmas for Student Privacy (EWA, 2014/03/26)
- Is Privacy Dead (Computerworld, 2014/01/6)
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- How Target Figured Out A Teen Girl Was Pregnant Before Her Father Did (Forbes, 2012/02/16)