LibPMC Workshop on Privacy and Data/Analytics in Libraries

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Workshop on Privacy and Data Analytics in Libraries

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National Web Privacy Forum

- IMLS funded National Forum for Web Analytics and Web Privacy
- Montana State University, Bozeman Montana
- September 12-14, 2018
- 40 librarians, technologists, and privacy researchers came together to address the need to enhance our understanding and practice of web analytics and privacy.

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https://www.lib.montana.edu/privacy-forum/
Forum Focal Areas

- Ethics & Equity
- Education & Engagement
- Policy
- Analytics Tools
Forum Outcomes

**Action Handbook** - provides background, resources, and good practices to guide libraries in ethically implementing web analytics with a view towards privacy.

**White Paper** - describes eight “pathways to action,” strategies for improving the state of privacy in libraries
Big Data & Learning Analytics
Some Examples...

University of Melbourne defends wi-fi tracking of students as planning move amid privacy concerns

The University of Melbourne has moved to allay privacy concerns amid revelations it is tracking students through their wi-fi usage.

The university said the practice, which looked at where people were moving around campus, helped institutions improve retention rates and the experience of students.

Privacy groups expressed concern about the

ORAL ROBERTS UNIVERSITY INTEGRATES WEARABLE TECHNOLOGY WITH PHYSICAL FITNESS CURRICULUM FOR INCOMING STUDENTS

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The university has converted a tennis court as part of their $200,000 fitness education. The program, which launched in February, is part of the university's efforts to improve overall student health. The program has been incepted to improve retention rates and the experience of students.

The program has been successful and is now being rolled out to other universities.

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UGA Dining Halls to introduce eye scanners

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The University of Georgia (UGA) is planning to introduce eye scanners in all dining halls to improve security.

The university said the technology will help reduce food fraud and theft.

UGA Dining Halls to introduce eye scanners

THE CHRONICLE OF HIGHER EDU

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Universities to travel through students' social media to look for suicide risk, under new project

A Duke study recorded thousands of students' faces. Now they're being used all over the world

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By Jake Salsky | 06/12/2019

University of Melbourne defends wi-fi tracking of students as planning move amid privacy concerns

The World Today
Updated 11 Aug 2016, 11:52pm

The University of Melbourne has moved to allay privacy concerns amid revelations it is tracking students through their wi-fi usage.

The university said the practice, which looked at where people were moving around campus, helped institutions improve retention rates and the experience of students.

Privacy groups expressed concern about the practice, which is also in place at some institutions around the country.

The head of services at the University of Melbourne Paul Buldig said there was no way of identifying who was using the wi-fi network.

PHOTO: The university said it was only able to track student movements, not individuals. (ABC News)

MAP: Parkville 3052
UGA Dining Halls to introduce eye scanners

Harrison Young | Senior Staff Writer    Apr 22, 2017   0
Harvard Took Secret Photos of 2,000 Students for Attendance Study
ORAL ROBERTS UNIVERSITY INTEGRATES WEARABLE TECHNOLOGY WITH PHYSICAL FITNESS CURRICULUM FOR INCOMING STUDENTS

Oral Roberts University (ORU) has maintained a fitness component as a part of their unique Whole Person Education since the University opened in 1965. In past years, students were required to manually log aerobics points in a fitness journal as a part of this fitness program. Through the innovations of Brightspace™ (D2L) and advancements in wearable technology, all incoming students will have the option of tracking aerobics points and fitness through Fitbit™ wearable watches.

“ORU offers one of the most unique educational approaches in the world by focusing on the Whole Person – spirit, mind and body,” said ORU President William M. Wilson. “The marriage of new technology with our physical fitness requirements is something that sets ORU apart. In fact, when we began this innovative program in the fall of 2015, we were the first university in the world to offer this unique approach to a fitness program.”

Those who choose to utilize Fitbits will reap the benefits of a more convenient fitness tracking system. The Fitbit trackers will feed into the D2L gradebook, automatically logging aerobics points. The on campus bookstore has sold more than 550 of the wearable watches.
Wearable Tech Weaves Its Way Into Learning

By Marguerite McNeal  Nov 17, 2016
Universities to trawl through students' social media to look for suicide risk, under new project

The scheme would be data protection compliant, and students would have to opt in.
UCCS secretly photographed students to advance facial recognition technology

Your familiar face
By J. Adrian Stanley @JAdrianStanley
Researcher Looks at 'Digital Traces' to Help Students

Sudha Ram’s Smart Campus research tracks students’ social interactions and daily routines via their CatCard usage — and leverages that information to make predictions about freshman retention.
Saint Louis University is placing 2,300 Echo Dots in student living spaces

By Dani Deahl | @danieahl | Aug 15, 2018, 2:02pm EDT

Image: Saint Louis University

EFF Releases Spying on Students Ed Tech Report

EFF Survey Reveals Gaps in Protecting the Privacy of K-12 Students Using School-Issued Devices and Cloud Apps

https://www.eff.org/deeplinks/2017/04/eff-releases-spying-students-ed-tech-report
Data Barometer
Frameworks
I. “We provide the highest level of service to all library users through appropriate and usefully organized resources; equitable service policies; equitable access; and accurate, unbiased, and courteous responses to all requests.”

III. “We protect each library user's right to privacy and confidentiality with respect to information sought or received and resources consulted, borrowed, acquired or transmitted.”
3. Privacy, secrecy and transparency

• Librarians and other information workers respect personal privacy, and the protection of personal data, necessarily shared between individuals and institutions.

• The relationship between the library and the user is one of confidentiality and librarians and other information workers will take appropriate measures to ensure that user data is not shared beyond the original transaction.

https://www.ifla.org/publications/node/11092#privacy
Principles for Ethical Research

1. Respect for persons
   • Informed Consent

2. Beneficence
   • Risk Evaluation
   • Maximize benefit and minimize risk

3. Justice
   • Equitable selection of research subjects
Legal Research ≠ Ethical Research
Researchers are not absolved of ethical obligation to research subjects regardless of compliance requirements.
Weighing Risk
Who, in fact, benefits?

- Data more valuable to institutions & corporations than individuals
- Loss of autonomy
- Individuals in studies rarely accrue benefits
- Risks are almost always greater for groups that already experience higher levels of surveillance & discrimination
Threat Models

Surveillance in the Stacks
The FBI's Library Awareness Program
Herbert N. Foerstel

Librarians won't stay quiet about government surveillance

Student accused of being a terrorist for reading book on terrorism
Staffordshire University apologises after counter-terrorism student Mohammed Umar Fasooq was questioned under Prevent anti-extremism initiative

Libraries and National Security: An Historical Review
by Joan Starr
Data Breaches

Data breach FAQs

4 JUNE 2019

Unauthorized Access on Georgia Tech Network Exposes Information for 1.3 Million Individuals

https://www.news.gatech.edu/2019/04/02/unauthorized-access-georgia-tech-network-exposes-information-13-million-individuals
Unforeseen Consequences

Bernstein and Woodward took a cab to the Library of Congress and found the office that handles White House requests for material in the library. Speaking to the reporters in a hallway, rather than his office, a librarian informed them politely that White House transactions were confidential. Eventually, the reporters found a more cooperative clerk and spent the afternoon in the reading room sorting through thousands of slips of paper—every request since July 1971, when Hunt was hired by the White House.

Secrets From Belfast

How Boston College’s oral history of the Troubles fell victim to an international murder investigation

Story by Beth McMurtie
January 26, 2014
Threat Modeling Exercise
Common Library Data Points

- Collection Use (Physical & Electronic)
- Card Swipe Data (Space Use)
- Instruction Participation
- Reference Participation
- Workstation Use
- WiFi/Network Use

Combined with:
- Student Performance Measures
- Student Demographic Data

BIG BROTHER IS WATCHING YOU