Education & Technology: When Worlds Collide

Ross Teixeira, GS1, 3

CW: coronavirus

Preschool Search

Madelyn recently went searching for preschools, and found issues in:

- Social media prevalence
- Surveillance
- Data sharing

Madelyn Sanfilippo
CITP Postdoc

Preschools: Social Media

- Preschools frequently post students and families on social media
- Parents are encouraged to follow and interact with pages when applying
  - Schools view parents, and use as part of admissions process
- Madelyn refused, leading to 2 rejections, and she's an outlier at her current school

@kindercare

Preschools: Surveillance

- You can track your child, not just on social media
- Multiple schools/daycares offer constant video monitoring
    - Secure?
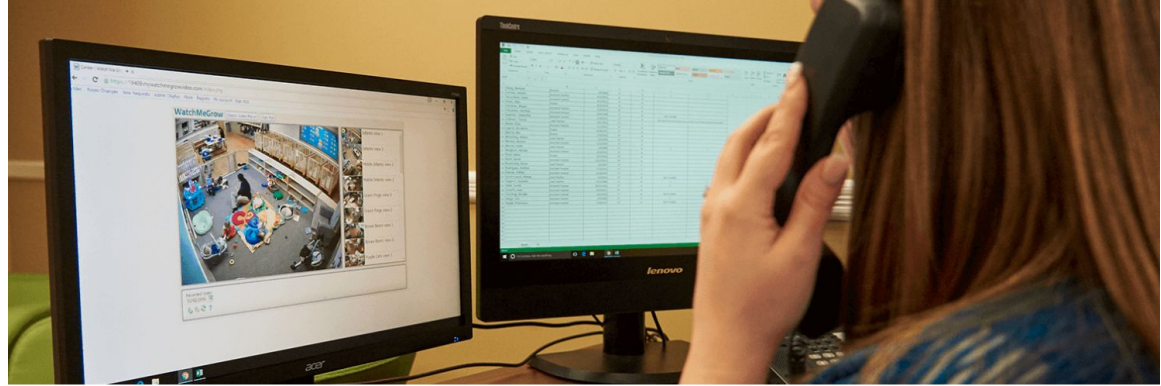
WATCH ME GROW. WATCH ME PLAY. WATCH ME LEARN

Hello moms, dads, and even grandparents too! We know it's hard to be apart and never want you to wonder what your child is doing throughout the day. Welcome to ParentView Internet Monitoring the portal that brings you right into your child's classroom, so you never miss a moment. Stop by anytime and fill your day with smiles, laughter, and watch the wonder of learning. Remember to bookmark this page for faster check-ins with your little one!

ParentView® Internet Monitoring is powered by WatchMeGrow

Preschools: Data Sharing

HiMama - Daycare Management App & Software

Hi Mama Inc.   Education

★★★★★ 1,077

E Everyone

⚠ You don't have any devices.

- Apps provide a deep window into children's days
  - Lessons, Naps, Meals, Bathroom breaks...
- Privacy policy did not describe children's data as "personal information"
  - Until Madelyn complained

PARENT ENGAGEMENT
Digital reports.
Beautiful as your programming.

Cindy's Report
Friday, Jun 9, 2017

Naps
11:29am - 11:59am (0h30m)
30 minute nap

Meals
Lunch - Most - Had a hamburger, apple and some orange juice.

Fluids
11:40am - 2 oz - Milk

Bathroom

DIGITAL ATTENDANCE
All your kiddos in a line.
Aren't they adorable?

Thu, Jun 8

Children In: 2 Out: 3 Abs: 0
Reports Open: 5 Sent: 8

Attendance

Julia Z.   Not Present
Angelica P.   Present
Stephanie Z.   Present
Alex G.   Checked out

CHILD PROFILES
All the info you need.
All in one place.

Lisa Xu   Edit Profile

Oct 25, 12
4 years old

Enrollment
HiMama 2
Status: Active
Schedule: MWRF (Day)
Daily Reports »

HiMama 1

# Growing Up, Are Things Better?

For Sale: SAT-Takers' Names. Colleges Buy Student Data and Boost Exclusivity

For 47 cents, the College Board will sell an individual's information, feeding admissions frenzy
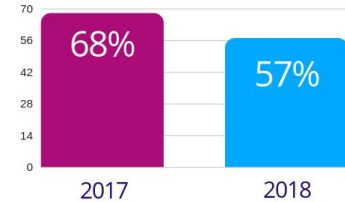
Social Media

- College admissions officers have viewed applicants' social media
- Admission has been revoked for offensive posts

Have you ever visited an applicant's social media page to learn more about them?

40% 2015
25% 2018
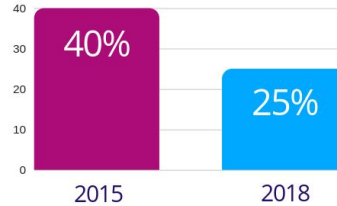
About 85% of teens say they use Instagram and Snapchat, where it's easier to protect their privacy, at least once a month, compared to just 36% who use Facebook once a month.[2]

Do you agree it's "fair game" to check social media profiles to help make admissions decisions?

68% 2017
57% 2018

Students have been generally more accepting of the practice than admissions officers; in a Kaplan survey released earlier this year, 70% of students said it's "fair game" to check social media.[3]

Harvard Rescinds Acceptances for At Least Ten Students for Obscene Memes

84-86 BRATTLE STREET

KAPLAN

Google Stops Scanning Student Gmail Accounts for Ads

By *Alistair Barr*

Apr 30, 2014 6:00 am ET

💬 0 RESPONSES

Google said Wednesday that it stopped scanning student Gmail accounts for advertising purposes after the practice was scrutinized during a recent court case.

Close to Home: Piazza

Q&A message board for courses

Piazza Careers

- Opt-out (at first) selling of student data with company recruiters
  - Personal profile
    - Name, age, work history (if entered)
    - Courses taken and TA'd
    - Course Q&A stats
      - Top contributing students
      - # of instructor-endorsed contributions

Piazza Careers

- FERPA Complaint:
  - Student data cannot be shared without explicit consent
- After complaints (Dec 2016):
  - Changed to opt-in data sharing
  - Institutions can add further restrictions for all students

School Threat Monitoring

- Aug 2019: Creation of the **Florida Schools Safety Portal**
  - Response to Parkland shooting
- Data Sources:
  - Department of Education
  - Department of Children and Families
  - Department of Law Enforcement
  - Department of Juvenile Justice
  - Local law enforcement
  - **Social Media**

FLORIDA DEPARTMENT OF EDUCATION
fldoe.org

Keywords & Geolocation

System includes keywords for the five topic types:

- Gun
- Bomb
- Bullying
- Mental Health
- General

Bomb · Bullying · Mental Health · Gun · General

System includes existing school specific data:

- When posts target a specific school, notifications are sent to that District/School

- Geo-fencing- geolocation data is provided by a social media platform to identify posts happening on or near the school

Uses geo-tags defined at multiple levels depending on district population density

www.FLDOE.org

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Florida Schools Safety Portal: More Data Collected

- Experiences of bullying;
- Foster care records;
- Immunization records;
- Homelessness status;
- Social media posts;
- Involuntary psychiatric exams;

- History of mental illness;
- Criminal records (including unverified reports of suspicious activity);
- History of substance abuse;
- Disciplinary records;
- Feelings of anger and persecution [paranoia]

Florida Schools Safety Portal: Problems

1. Database does not store race, religion, disability, sexual orientation *directly*...
   - But other data can serve as proxies (correlated):
     - Foster care, disciplinary history, reasons for bullying, etc.
2. Makes students less likely to:
   - Attend therapy
   - Report instances of bullying
3. No provisions for deleting data

Silver Lining?

Florida 'student safety' database fell short, commission says

That makes the portal near-useless, Gualtieri said, because any given user will likely have access to only one or two of the data sources, which they already have access to in separate databases. For police officers, already he said.

That limitation, like the others that the commission described in the database, are features that officials said they are looking to improve. Slides from department presentations say the state is also considering new data sources to add to the portal.

Technology in the Classroom- Evidence That:

- Pros:
    - Course material/apps cheaper than buying textbooks
    - Interactive lessons can be more effective/engaging than textbooks
        - Leading to improved test scores, from kindergartners to college students
    - Technology aids students with disabilities
        - Closed captions, alternate mediums
- Cons:
    - Students perform worse when cell phones are freely allowed in a classroom
        - "Myth of multitasking"
    - Taking notes on laptop during class is less effective than on paper
        - Laptops can distract other students as well
    - Pervasive technology reduces students' attention spans

https://www.insidehighered.com/digital-learning/views/2018/12/12/what-research-tells-us-about-using-technology-classroom-opinion, etc.

Is Tech Being Used?

>140,000 20-minute classroom observations across the U.S. and internationall

"**Uses digital tools/technology to gather, evaluate and/or use information for learning?**"

Rating	Frequency/Number*	Percent
1 = NOT OBSERVED	75,088	52.7
2 = SOMEWHAT EVIDENT	16,140	11.3
3 = EVIDENT	22,614	15.9
4 = VERY EVIDENT	28,743	20.2
TOTAL	142,606	100.0

Technology Problems and Student Achievement Gaps: A Validation and Extension of the Technology Maintenance Construct

Amy L. Gonzales, Jessica McCrory Calarco, Teresa Lynch

Article information ⌄

Abstract

How do physical digital inequalities persist as technology becomes commonplace? We consider this question using surveys and focus groups with U.S. college students, a group that has better than average connectivity. Findings from a 748-person nonrepresentative survey revealed that ownership and use of cellphones and laptops were nearly universal. However, roughly 20% of respondents had difficulty maintaining access to technology (e.g., broken hardware, data limits, connectivity problems, etc.). Students of lower socioeconomic status and students of color disproportionately experienced hardships, and reliance on poorly functioning laptops was associated with lower grade point averages. Focus group and open-ended data elaborate these findings. Findings quantitatively validate the *technology maintenance* construct, which proposes that as access to information and communication technology peaks, the digital divide is increasingly characterized by the (in)ability to maintain access. Data highlight overlooked nuances in digital access that may inform social disparities and the policies that may mitigate them.

Digital Divide is everywhere. Not just having technology, but <u>working</u> technology.

The Digital Gap Between Rich and Poor Kids Is Not What We Expected
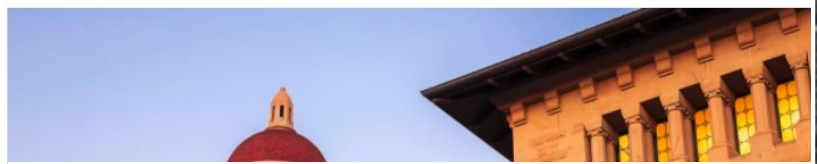
America's public schools are still promoting devices with screens — even offering digital-only preschools. The rich are banning screens from class altogether.

- In Silicon Valley, technology-free schools are becoming a privilege

https://www.nytimes.com/2018/10/26/style/digital-divide-screens-schools.html

Stanford cancels in-person classes to coronavirus

A faculty member has tested positive for the virus

By Kim Lyons | Mar 7, 2020, 1:30pm EST

University of Washington, other area colleges suspend on-site classes in response to coronavirus

March 6, 2020 at 9:01 am | Updated March 6, 2020 at 8:09 pm

Columbia, Hofstra University cancel classes over coronavirus concerns

By Joe Marino and Kenneth Garger   March 8, 2020 | 9:35pm | Updated

CALIFORNIA

Amid coronavirus concerns, USC will test or week

Italy closes schools

Berkeley
UNIVERSITY OF CALIFORNIA

Office of the Executive Vice Chancellor & Provost

Dear Colleagues,

Princeton will move to virtual instruction following spring break and decrease the number of gatherings on campus.

Forced online by virus, China's schools run into censorship

By YANAN WANG   March 4, 2020

- Lecture transcripts must be typed and pre-approved
- Biology courses censored for "pornographic content"
- History & politics frequently censored

https://apnews.com/cbde0ac8f6b52a37206a6f374e1f0398

Digital Divide

Technical issues:

- Many students without internet connection
  - Some universities are subsidizing 4G plans for students
- Xuexitong online education platform crashed from too many connections

https://www.abacusnews.com/culture/online-classes-coronavirus-hit-china-leave-kids-without-wi-fi-struggling/article/3064755

Tsinghua University Livestreaming Setups

Children were presumably glad to be off school – until, that is, an app called DingTalk was introduced. Students are meant to sign in and join their class for online lessons; teachers use the app to set homework. Somehow the little brats worked out that if enough users gave the app a one-star review it would get booted off the App Store. Tens of thousands of reviews flooded in, and DingTalk's rating plummeted overnight from 4.9 to 1.4. The app has had to beg for mercy on social media: 'I'm only five years old myself, please don't kill me.'

How to Adapt?

Naomi Rendina
@NaomiRendina

Okay #twitterstorians, I'm trying to convince my chair that online teaching methods have changed. What is your favorite component of online teaching? What is your favorite assignment/activity that is NOT a forum or essay? TIA

John Stewart @JohnStewartPhD · Mar 4
Replying to @NaomiRendina
Still sort of an essay but I've worked with @WikiEducation to have my students edit Wikipedia entries.

Also, assignment banks that give each student choices in what kinds of subject matter and assignments are most interesting/applicable to them.

💬 2   🔁 1   ♡ 7   ⬆

Gina Bennett @GinaGBennett · Mar 5
Replying to @NaomiRendina
Storymaps! storymaps.arcgis.com So useful as a tool! I've used them several semesters now. Students find them engaging and marking them is more enjoyable 🗺🌐🌍🌎📚❤️

Alyssa Smith @_alyssacsmith · Mar 4
Replying to @NaomiRendina
This doesn't have to be an online assignment, but in our history of the present class, @kathleen_belew @trishkahle @RDerekBlack @Aseberr & I had students write a tweet thread instead of a paper; had to address a current issue historically & make a concise argument. Rad responses!

💬 1   🔁   ♡ 14   ⬆

Eric Hundman | 何諳銳 @ehundman · Mar 6
Zoom for me has worked best for small-group synchronous discussions and one-on-one meetings. This trick for having a separate whiteboard in a Zoom meeting by calling in from an iPad w/Apple Pencil has been very helpful in virtual office hours: yangfeng.hosting.nyu.edu/post/teaching-...
3/x

Have a nice vacation!