

Data Justice Links: Resources for Critical Thinking about AI Hype, AI Harms,
and Emerging Technologies in Education and Public Services

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Featured posts for April, 2024

Williamson, B., Molnar, A., & Boninger, F. (2024). [*Time for a pause: Without effective public oversight, AI in schools will do more harm than good*](#). Boulder, CO: National Education Policy Center. Retrieved March 7, 2024 from <http://nepc.colorado.edu/publication/ai>.

Holzmeyer, C. (2021). [*Beyond 'AI for Social Good' \(AI4SG\): Social transformations - not tech fixes - for health equity*](#). *Interdisciplinary Science Reviews*, 46 (1-2), 94-125.

Williamson, B., (2024). [*AI in Education is a Public Problem: 21 Arguments Against AI in Education*](#). *Code Acts in Education*.



Ferguson, G. (2023). [*Outsourced and Automated: How AI Companies Have Taken Over Government Decision-Making*](#). Electronic Privacy Information Center.

Machine Learning
AI Detection Tools Falsely Accuse International Students of Cheating

Stanford study found AI detectors are biased against non-native English speakers

By [Tara García Mathewson](#)

August 14, 2023 08:00 ET



A student on the campus of University of California Los Angeles.

Irfan Khan / Los Angeles Times via Getty Images

García Mathewson, T. (August 14, 2023). [*AI Detection Tools Falsely Accuse International Students of Cheating*](#). The Markup.



ACLU (2023). [*Digital Dystopia: The Danger in Buying What the EdTech Surveillance Industry is Selling*](#). American Civil Liberties Union.

[School Board Model Policy - School Surveillance Technology](#)

[Model Bill - Student Surveillance Technology Acquisition Standards Act](#)

[School Leadership Checklist - School Surveillance Technology](#)

[10 Questions for School Board Meetings - School Surveillance Technology](#)

Potential Harms from Automated Decision-Making		
Individual Harms		Collective / Societal Harms
Illegal	Unfair	
Loss of Opportunity		
Employment Discrimination E.g. Filtering job candidates by race or genetic/health information		Differential Access to Job Opportunities
Insurance & Social Benefit Discrimination E.g. Higher termination rate for benefit eligibility by religious group		
Housing Discrimination E.g. Landlord relies on search results suggesting criminal history by race		Differential Access to Housing
Education Discrimination E.g. Denial of opportunity for a student in a certain ability category		
Economic Loss		
Credit Discrimination E.g. Denying credit to all residents in specified neighborhoods ("redlining")		Differential Access to Credit
Differential Pricing of Goods and Services E.g. Raising online prices based on membership in a protected class		
Narrowing of Choice E.g. Presenting product discounts based on "ethnic affinity"		Differential Access to Goods and Services
Narrowing of Choice E.g. Presenting ads based solely on past "clicks"		
Social Detriment		
Network Bubbles E.g. Varied exposure to opportunity or evaluation based on "who you know"		Filter Bubbles E.g. Algorithms that promote only familiar news and information
Dignitary Harms E.g. Emotional distress due to bias or a decision based on incorrect data		
Constraints of Bias E.g. Constrained conceptions of career prospects based on search results		Stereotype Reinforcement E.g. Assumption that computed decisions are inherently unbiased
Loss of Liberty		
Constraints of Suspicion E.g. Emotional, dignitary, and social impacts of increased surveillance		Increased Surveillance E.g. Use of "predictive policing" to police minority neighborhoods more
Individual Incarceration E.g. Use of "recidivism scores" to determine prison sentence length (legal status uncertain)		
		Disproportionate Incarceration E.g. Incarceration of groups at higher rates based on historic policing data

Table above is from [Unfairness by Algorithms: Distilling the](#)

[AI Executive Order: Human Readable Edition](#)

Marachi, R. (December 13, 2023). [AI Hype meets AI Harms: Data Privacy Vulnerabilities with AI Initiatives in Education](#). Prepared for the National Education Association AI Task Force.

Marachi, R. (October 31, 2023). [AI Hype, AI Harms, and Emerging Technologies in Education \[Slidedeck\]](#). Presentation prepared for the *Center for Leadership, Equity, and Research*.

[ProfileGPT: What does ChatGPT know about you ?](#)

[AI and ChatGPT cheating allegations at Cambridge and Pukekohe High outrage parents - NZ Herald](#)

[FTC to Ban BetterHelp from Revealing Consumers' Data, Including Sensitive Mental Health Information, to Facebook and Others for Targeted Advertising](#) // Federal Trade Commission, March 2, 2023

[Top 5 AI Risks In The Era Of ChatGPT and Generative AI](#) // Glenn Gow, Forbes

[Why Does AI Lie, and What Can We Do About It?](#) // Robert Miles [Video]

[Generative AI like ChatGPT reveal deep-seated systemic issues beyond the tech industry](#) // The Conversation

[Ethicists fire back at 'AI Pause' letter they say 'ignores the actual harms'](#) // TechCrunch

[Why you shouldn't trust AI search engines](#) // MIT Technology Review

[Pausing AI Developments Isn't Enough: We Need to Shut It All Down](#)

[ChatGPT: Help or Hype?](#) - Dr. Sara West and Dr. Roxana Marachi discuss controversies of ChatGPT and generative AI tools. Quick Bites event live streamed on 2/20, hosted by the *College of Humanities and the Arts* at SJSU.

[Generative AI ChatGPT Can Disturbingly Gobble Up Your Private And Confidential Data, Forewarns AI Ethics And AI Law](#)

Agomuo, F. (January 27, 2023). [The 6 biggest problems with ChatGPT right now](#). *Digital Trends*.

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Redden, J. (December 7, 2017). [Six ways \(and counting\) that big data systems are harming society](#). *The Conversation*.

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Angwin, J. (March 6, 2021). [The Rise - and the Recurring Bias - of Risk Assessment Algorithms](#). *The Markup*.

Caines A., & Silverman, S. (2021). [Back Doors, Trap Doors, and Fourth-Party Deals: How You End up with Harmful Academic Surveillance Technology on Your Campus without Even Knowing](#). *The Journal of Interactive Technology and Pedagogy*.

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Rhoades, A. (2020). [Big Tech Makes Big Data Out of Your Child: The FERPA Loophole EdTech Exploits to Monetize Student Data](#). *American University Business Law Review*, 9 (3), 445-474.

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AI and Algorithmic Incident Controversy (AIAAIC) Repository of AI, algorithmic and automation-driven incidents and controversies // <https://www.aiaaic.org/> // See also [@AIcontroversy](http://bit.ly/AIcontroversy) // [#AIcontroversy](#) // [AI Global: Where in the World Is AI?](#)

[NAACP Resolutions relevant to Artificial Intelligence \(AI\), Algorithmic Bias, Data Justice, and the Prevention of Data Harms \(2019-2021\)](#) // http://bit.ly/NAACP_DataJusticeResolutions

[2019 NAACP Resolution Opposing Use of Blockchain Digital Identity Systems](#) (p. 62-63)
(CA/HI State NAACP and National NAACP, 2019)

[2020 NAACP Resolution Protecting Youth from Data Exploitation by Online Technologies and Applications](#) // (CA/HI State NAACP and National NAACP, 2020)

[2021 NAACP Resolution on Facial Recognition](#) (pp. 47-48)
(CA/HI State NAACP and National NAACP, 2021)

Critical Perspectives on ChatGPT and Generative AI

ChatGPT & Education	
According to OpenAI "ChatGPT is a language model trained to produce text" (Natalie, 2022, para. 2). Put simply, you ask a question or write a prompt, ChatGPT responds with text.	
What Do You Need to Know About ChatGPT?	
ChatGPT is NOT Always Trustworthy	ChatGPT is NOT Safe
<ul style="list-style-type: none"> OpenAI is not transparent about the data ChatGPT uses to generate text. It may generate misleading, false, offensive, or biased content (OpenAI, 2022). Questions related to events or the world after 2021 "may also occasionally produce harmful instructions or biased content" (Natalie, 2022, para. 4). When asked to cite sources, ChatGPT (so far) tends to make up references/citations that do not exist. 	<p>According to the Privacy Policy, ChatGPT:</p> <ul style="list-style-type: none"> Is not to be used by children under 13. Is collecting a massive amount of information from its users (e.g., IP address, user actions, browser/device, country). Does not abide by any "Do Not Track" signals. May share your information with third-party vendors, law enforcement, affiliates, and other users. <p>NOTE: OpenAI does not recommend sharing any sensitive information when asking ChatGPT questions because any user inputted text cannot be deleted from the system (Natalie, 2022).</p>

<https://drive.google.com/file/d/1m358jmLKYI-1wk3CQf6pggGJyEc6ONk/view>

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Jarovsky, L. (February 8, 2023). [AI-Based Companions like Replika are Harmful to Privacy and Should be Regulated](#). *The Privacy Whisperer*

[Experts fear ChatGPT will soon be used in devastating cyberattacks](#)

[Italian DPA bans #AI chatbot "Replika" due to child safety concerns](#)

[Armed With ChatGPT, Cybercriminals Build Malware and Plot Fake Girl Bots](#)

[Statement on Artificial Intelligence Writing Tools in Writing Across the Curriculum Setting](#)
Association for Writing Across the Curriculum

Weil, E. (March 1, 2023). [You Are Not a Parrot](#). *NY Magazine Intelligencer*.

Critical Perspectives on Blockchain Digital ID Systems

Open letter signed by over 1,500 computer scientists, software engineers, and technologists documenting problems and harms of blockchain data systems: <http://concerned.tech>. Related post here: [Tech experts urge Washington to resist crypto industry's influence](#) - *Financial Times*

[2019 NAACP Resolution Opposing Use of Blockchain Digital Identity Systems](#) (p. 62-63)
(CA/HI State NAACP and National NAACP, 2019)

Berger, J. (June 4, 2018). [Blockchain - Chock full of problems for medical data privacy](#). *Blockchains for the Information Profession*.

Conover, A. (Jun 28, 2022). [Popping the Crypto Bubble with Nicholas Weaver](#). *Factually with Adam Conover (Podcast)*.

Low, K.F. and Mik, E. (June 20, 2019). [Pause the Blockchain Legal Revolution](#). *International & Comparative Law Quarterly*, 69(1), 135-175. Available at SSRN: <https://ssrn.com/abstract=3439918>

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Marachi, R. (September 6, 2022). [Tokenizing Toddlers: Cradle-to-Career Behavioral Tracking on Blockchain, Web3, and the “Internet of Education”](#) Crypto Policy Symposium [video segment]. London, UK. Extended slidedeck available [here](#).

Marachi, R. (September, 2022). *Federal Trade Commission Hearing for Commercial Surveillance and Data Security* [Public comment]. [Video comment here](#). Written transcription at http://bit.ly/Marachi_FTC_Statement

Reneiris, E. (September 23, 2019). [Forget erasure: why blockchain is really incompatible with the GDPR](#). *Berkman Klein Center Collection*. Republished on Medium.

White, M. (2022). [Web3 is going just great](#). Web3isgoinggreat.com. [Archive of Crypto, Web3, Blockchain Fraud]

Subset of critical perspectives on blockchain/related files (http://bit.ly/Blockchain_Files) connected to the Social Impact sector including education (from larger collection on privatization of public services <http://bit.ly/sibgamble>)

Media, Community, and Web Resources

[Coded Bias Documentary, Directed by Shalini Kantayya](#)

To view through SJSU OneSearch, see [Coded Bias](#) // Also available for streaming on [Netflix](#)

Permalink: https://sjsu-primo.hosted.exlibrisgroup.com/permalink/f/1cue0e3/01CALS_ALMA715991593900029

[Educational Psychology & Technology: Critical Perspectives and Resources](#)

<http://bit.ly/edpsychtech>

Collection of articles, peer-reviewed research, and social media on controversies/harms of remote online proctoring “invigilation” programs (Proctorio, HonorLock, Examity, ProctorU, etc.). Curated by [Charles Logan](#).
http://bit.ly/online_proctoring

[Design for Cognitive Bias Resources Sheet](#) (curated by David Dylan Thomas)

Critical posts and updates on [#SurveillanceTech](#) rolling out in cities: ALPR (Automated License Plate Reader) Technologies // http://bit.ly/ALPR_SJ

AI and Algorithmic Incident Controversy (AIAAIC) Repository of AI, algorithmic and automation-driven incidents and controversies // <https://www.aiaaic.org/> // See also [@AIcontroversy](http://bit.ly/AIcontroversy) // [#AIcontroversy](#) // [AI Global: Where in the World Is AI?](#)

AI Myths // aimyths.org

AI Now Institute // <https://ainowinstitute.org/>

Algorithmic Justice League - Unmasking AI Harms and Biases

<https://www.ajl.org/> // <https://www.ajl.org/library/research>

Center for Critical Race and Digital Studies // NYU Institute of Development and Social Change

<https://criticalracedigitalstudies.com/about/>

Center for Democracy and Technology

<https://cdt.org/>

Center for Digital Democracy

<https://www.democraticmedia.org/>

Data Justice Lab - Exploring Social Justice in the Age of Datafication

Cardiff University's School of Journalism, Media, and Culture

<https://datajusticelab.org/>

UCLA Institute for Technology, Law, and Policy

<https://law.ucla.edu/academics/centers/institute-technology-law-policy>

Encode Justice

<https://encodejustice.org/>

The Color of Surveillance // Georgetown Law, Center on Privacy and Technology

<https://www.law.georgetown.edu/privacy-technology-center/events/color-of-surveillance-2019/>

[Landlord Tech Watch](#)

To view security analyses of Android Apps (including many learning, edtech, and children's related apps) visit:

<https://search.appcensus.io/>

Mozilla's PrivacyNotIncluded page:

<https://foundation.mozilla.org/en/privacynotincluded/> // Social media feed: [#PrivacyNotIncluded](#)

Parent Coalition for Student Privacy

<https://studentprivacymatters.org/>

Student Data Privacy Project

<https://www.studentdataprivacyproject.com/>

US State Privacy Legislation Tracker

<https://iapp.org/resources/article/us-state-privacy-legislation-tracker/>

[Surveillance Technology Oversight Project](#)

Related Research Articles and Educational Media

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**Note:* The list above is a work in progress with many relevant resources not yet listed. It originated as a curated collection for the *Faculty Learning Community on Examining Privilege in Course Design and Teaching through the Center for Faculty Development* (Spring 2021). Please note that the content provided and linked to the resources above are provided for educational purposes only and may not necessarily represent the views of SJSU or the California State University System.

To add resources to the list, please send recommendations to Dr. Roxana Marachi at roxana.marachi@sjsu.edu.