

## AI SYSTEMS AS STATE ACTORS

Kate Crawford\* & Jason Schultz\*\*

*Many legal scholars have explored how courts can apply legal doctrines, such as procedural due process and equal protection, directly to government actors when those actors deploy artificial intelligence (AI) systems. But very little attention has been given to how courts should hold private vendors of these technologies accountable when the government uses their AI tools in ways that violate the law. This is a concerning gap, given that governments are turning to third-party vendors with increasing frequency to provide the algorithmic architectures for public services, including welfare benefits and criminal risk assessments. As such, when challenged, many state governments have disclaimed any knowledge or ability to understand, explain, or remedy problems created by AI systems that they have procured from third parties. The general position has been “we cannot be responsible for something we don’t understand.” This means that algorithmic systems are contributing to the process of government decisionmaking without any mechanisms of accountability or liability. They fall within an accountability gap.*

*In response, we argue that courts should adopt a version of the state action doctrine to apply to vendors who supply AI systems for government decisionmaking. Analyzing the state action doctrine’s public function, compulsion, and joint participation tests, we argue that—much like other private actors who perform traditional core government functions at the behest of the state—developers of AI systems that directly influence government decisions should be found to be state actors for purposes of constitutional liability. This is a necessary step, we suggest, to bridge the current AI accountability gap.*

### INTRODUCTION

Advocates and experts are increasingly concerned about the rapid introduction of artificial intelligence (AI) systems in government services, from facial recognition and autonomous weapons to criminal risk

---

\* Distinguished Research Professor, New York University; Principal Researcher, Microsoft Research; Co-Founder, AI Now Institute at New York University.

\*\* Professor of Clinical Law, New York University; Law & Policy Area Lead, AI Now Institute at New York University. The authors wish to thank the participants in the *Columbia Law Review’s* 2019 Symposium “Common Law for the Age of AI” for their valuable feedback, and especially Frank Pasquale and Eric Talley for their insightful comments.

assessments and public benefits administration.<sup>1</sup> Every month, more algorithmic and predictive technologies are being applied in domains such as healthcare, education, criminal justice, and beyond.<sup>2</sup> A range of “advocates, academics, and policymakers have raised serious concerns over the use of such systems, which are often deployed without adequate assessment, safeguards, [or] oversight.”<sup>3</sup> This is due, in part, to the fact that government agencies commonly outsource the development—and sometimes the implementation—of these systems to third-party vendors.<sup>4</sup> This outsourcing often leaves public officials and employees without any real understanding of those systems’ inner workings or, more importantly, the variety of risks they might pose. Such risks range from discrimination and disparate treatment to lack of due process, discontinuance of essential services, and harmful misrepresentations.<sup>5</sup>

These risks are neither hypothetical nor intangible. Today, AI systems help governments decide everything from whom to release on bail,<sup>6</sup>

---

1. See Litigating Algorithms, AI Now Inst., (Sept. 24, 2018), <https://ainowinstitute.org/announcements/litigating-algorithms.html> [<https://perma.cc/683L-NSBJ>] [hereinafter Litigating Algorithms Announcement]; *infra* section I.A. The term “artificial intelligence” has taken on many meanings, especially in conversations about law and policy. For this Essay, we will use it as a broad umbrella term, covering any computational system that utilizes machine learning, including deep learning and reinforcement learning; neural networks and algorithmic decisionmaking; and other similar techniques to generate predictions, classifications, or determinations about individuals or groups. We choose this definition in part because, while some of the systems we discuss may not actively incorporate the most modern AI techniques, they are designed with the same objectives in mind and aim to usher in AI capabilities as soon as they are feasible or available.

2. See *infra* section I.A.

3. Litigating Algorithms Announcement, *supra* note 1.

4. See, e.g., AI Now Inst., Litigating Algorithms: Challenging Government Use of Algorithmic Decision Systems 7 (2018), <https://ainowinstitute.org/litigatingalgorithms.pdf> [<https://perma.cc/FSG5-JBHT>] [hereinafter Litigating Algorithms] (“Government agencies adopting these systems commonly enter into contracts with third-party vendors that handle everything.”).

5. For a survey of these risks and concerns, see generally Solon Barocas & Andrew D. Selbst, Big Data’s Disparate Impact, 104 Calif. L. Rev. 671 (2016) (using the lens of anti-discrimination law to explore bias arising from data mining); Danielle Keats Citron & Frank Pasquale, The Scored Society: Due Process for Automated Predictions, 89 Wash. L. Rev. 1 (2014) (warning that additional procedural safeguards are necessary for automated prediction systems); Danielle Keats Citron, Technological Due Process, 85 Wash. U. L. Rev. 1249 (2008) (proposing a “technological due process” model to vindicate procedural values in an era of automation); Kate Crawford & Jason Schultz, Big Data and Due Process: Toward a Framework to Redress Predictive Privacy Harms, 55 B.C. L. Rev. 93 (2014) (arguing that procedural due process provides a framework for the regulation of big data); David Gray & Danielle Citron, The Right to Quantitative Privacy, 98 Minn. L. Rev. 62 (2013) (raising concerns over the use of algorithmic systems to establish probable cause for law enforcement searches or arrests).

6. See Julia Angwin, Jeff Larson, Surya Mattu & Lauren Kirchner, Machine Bias, ProPublica (May 23, 2016), <https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing> [<https://perma.cc/BH93-NG7C>].

to how many hours of care disabled individuals will receive,<sup>7</sup> to which employees should be hired, fired, or promoted.<sup>8</sup> Yet as decisionmaking shifts from human-only to a mixture of human and algorithm, questions of how to allocate constitutional liability have remained largely unanswered.

The majority of solutions to these concerns have focused on technological or regulatory oversight to address bias, fairness, and due process.<sup>9</sup> However, to date, few if any of these approaches have succeeded in providing adequate accountability frameworks, either because they have failed to address the larger social and structural aspects of the problems or because there is a lack of political will to implement them.<sup>10</sup> As such, it is time to consider new paradigms for accountability, especially for potential constitutional violations.

One underexplored approach is the possibility of holding AI vendors accountable for constitutional violations under the state action doctrine. Although state actors are typically governmental employees, a private party may be deemed a state actor if (1) the private party performs a function that is traditionally and exclusively performed by the state, (2) the state directs or compels the private party's conduct, or (3) the private party acts jointly with the government.<sup>11</sup>

This Essay explores this approach to AI accountability in three parts. Part I outlines the current state of play for government use of AI systems, especially those involved in key governmental decisionmaking processes. Part II reviews the relevant case law and literature on the state action

---

7. See Colin Lecher, What Happens When an Algorithm Cuts Your Health Care, *The Verge* (Mar. 21, 2018), <https://www.theverge.com/2018/3/21/17144260/healthcare-medicaid-algorithm-arkansas-cerebral-palsy> [<https://perma.cc/8SS7-F7K5>]; see also *infra* section I.A.

8. See Miranda Bogden & Aaron Rieke, Upturn, *Help Wanted: An Examination of Hiring Algorithms, Equity, and Bias 1–2* (2018), <https://www.upturn.org/static/reports/2018/hiring-algorithms/files/Upturn%20-%20Help%20Wanted%20-%20An%20Exploration%20of%20Hiring%20Algorithms,%20Equity%20and%20Bias.pdf> [<https://perma.cc/UQT6-4PSN>]; Loren Larsen, *HireVue Poised to Bring US Government Agencies' Recruiting Up to Speed*, *HireVue* (May 16, 2019), <https://www.hirevue.com/blog/hirevue-poised-to-bring-us-government-agencies-recruiting-up-to-speed> [<https://perma.cc/KWQ2-LW9H>].

9. See *supra* note 5.

10. See, e.g., Bogden & Rieke, *supra* note 8, at 7 (“Structural kinds of bias also act as barriers to opportunity for jobseekers, especially when predictive tools are involved.”); Dillon Reisman, Jason Schultz, Kate Crawford & Meredith Whittaker, *AI Now Inst., Algorithmic Impact Assessments: A Practical Framework for Public Agency Accountability 3* (2018), <https://ainowinstitute.org/aiareport2018.pdf> [<https://perma.cc/TE2M-HBUU>] [hereinafter *AI Now AIA Report*] (proposing a comprehensive framework for assessing the “automated decision systems” of public agencies); Meredith Whittaker, Kate Crawford, Roel Dobbe, Genevieve Fried, Elizabeth Kazianas, Varoon Mathur, Sarah Myers West, Rashida Richardson, Jason Schultz & Oscar Schwartz, *AI Now Inst., AI Now 2018 Report 12* (2018), [https://ainowinstitute.org/AI\\_Now\\_2018\\_Report.pdf](https://ainowinstitute.org/AI_Now_2018_Report.pdf) [<https://perma.cc/V7B8-4XPY>] [hereinafter *AI Now 2018 Report*] (“[AI] tools . . . could easily be turned to more surveillant ends in the U.S., without public disclosure and oversight, depending on market incentives and political will.”).

11. *Manhattan Cmty. Access Corp. v. Halleck*, 139 S. Ct. 1921, 1928 (2019); *Sybalski v. Indep. Grp. Home Living Program, Inc.*, 546 F.3d 255, 257 (2d Cir. 2008).

doctrine, focusing on the public function, compulsion, and joint participation theories, and how these theories might apply to vendors of AI systems that government uses. Finally, Part III discusses the normative arguments in favor of applying the state action doctrine to close the AI accountability gap. Specifically, this Essay argues that—unlike traditional technology vendors that supply government actors with primarily functional tools, such as a computer operating system, word processing program, or web browser—AI vendors provide government with tools that assist or supply the core logic, justification, or action that is the source of the constitutional harm. Thus, much like other private parties whose conduct is fairly attributable to the state, vendors who build AI systems may also subject themselves to constitutional liability.

### I. SEEING LIKE A STATE AI SYSTEM

To date, there is no comprehensive map or even agreed-upon methodology for tracking government use of AI in the United States, although some efforts are currently underway at the federal, state, and city levels.<sup>12</sup> Until the existence, design, and functions of these systems can be successfully documented, assessing their impact on constitutional accountability will be challenging.<sup>13</sup> In particular, there have been two main challenges to public scrutiny of AI: (1) lack of clear public accountability and oversight processes; and (2) objections from vendors that any real insights into their technology would reveal trade secrets or other confidential information.<sup>14</sup>

---

12. For some preliminary attempts, see, e.g., Frank Pasquale, *The Black Box Society: The Secret Algorithms that Control Money and Information* 18, 140–58 (2015) (explaining that meaningful reform “mean[s] focusing less on trying to control the collection of data up front, and more on its *use*—how companies and governments are actually deploying it”); AI Now AIA Report, *supra* note 10, at 16 (proposing a self-assessment process that provides “an opportunity for agencies to develop expertise when commissioning and purchasing automated decision systems”); Robert Brauneis & Ellen P. Goodman, *Algorithmic Transparency for the Smart City*, 20 *Yale J.L. & Tech.* 103, 109 (2018) (testing the opacity of six predictive algorithms used by different local governments).

13. See, e.g., AI Now AIA Report, *supra* note 10, at 6 (explaining that algorithmic impact assessments can “provide communities with information that can help determine whether those systems are appropriate”); Press Release, Admin. Conference of the U.S., ACUS Announces New Initiatives on the Use of Artificial Intelligence in the Federal Administrative Process (Nov. 28, 2018), <https://www.acus.gov/newsroom/news/acus-announces-new-initiatives-use-artificial-intelligence-federal-administrative> [<https://perma.cc/4UUB-YECL>] (announcing a collaboration with leading scholars to produce a report on AI’s application to administrative adjudication and rulemaking); Automated Decision Systems: Examples of Government Use Cases, AI Now Inst. 1, <https://ainowinstitute.org/nycadschart.pdf> [<https://perma.cc/YYW3-7YBT>] (last visited July 29, 2019) (listing examples of government use of automated decision systems in New York City “to help New Yorkers understand the scope of issues and use cases”).

14. See, e.g., Brief for the AI Now Institute et al. as Amici Curiae Supporting the Respondent at 9–32, *Food Mktg. Inst. v. Argus Leader Media*, 139 S. Ct. 2356 (2019) (No. 18-481), 2019 WL 1453518 [hereinafter Brief for the AI Now Institute]; Hannah

Thus, while some information can be gleaned via public processes, investigative reporting, or open records, this information is often generalized and lacking in useful detail.<sup>15</sup> For example, at the federal level, the few glimpses into the state of AI have come through self-initiated processes, such as the Obama Administration's AI policy process.<sup>16</sup> Recently, the Administrative Conference of the United States announced its own process and forthcoming report on "existing and potential uses of artificial intelligence to improve administrative adjudication, rulemaking, and other regulatory activities throughout the federal government."<sup>17</sup> At the state and local levels, several commissions and task forces have begun to look into these questions.<sup>18</sup>

---

Bloch-Wehba, *Access to Algorithms*, 88 *Fordham L. Rev.* (forthcoming) (manuscript at 4–5), <https://ssrn.com/abstract=3355776> (on file with the *Columbia Law Review*); Citron & Pasquale, *supra* note 5, at 5, 8; Natalie Ram, *Innovating Criminal Justice*, 112 *Nw. U. L. Rev.* 659, 663 (2018); Rebecca Wexler, *Life, Liberty, and Trade Secrets: Intellectual Property in the Criminal Justice System*, 70 *Stan. L. Rev.* 1343, 1349–50 (2018).

15. See, e.g., AI Now AIA Report, *supra* note 10, at 17 (explaining the difficulties involved with open record requests that arise because agencies do not necessarily know which data sets are pertinent); Brauneis & Goodman, *supra* note 12, at 152 ("Our research suggested that governments simply did not have many records concerning the creation and implementation of algorithms, either because those records were never generated or because they were generated by contractors and never provided to the governmental clients.").

16. See Ed Felten & Terah Lyons, *The Administration's Report on the Future of Artificial Intelligence*, The White House: President Barack Obama (Oct. 12, 2016), <https://obamawhitehouse.archives.gov/blog/2016/10/12/administrations-report-future-artificial-intelligence> [<https://perma.cc/73QA-N8FV>]; see also Comm. on Tech., Exec. Office of the President, *Preparing for the Future of Artificial Intelligence 1* (2016), [https://obamawhitehouse.archives.gov/sites/default/files/whitehouse\\_files/microsites/ostp/NSTC/preparing\\_for\\_the\\_future\\_of\\_ai.pdf](https://obamawhitehouse.archives.gov/sites/default/files/whitehouse_files/microsites/ostp/NSTC/preparing_for_the_future_of_ai.pdf) [<https://perma.cc/8WJ5-MVK9>]; Networking & Info. Tech. Research & Dev. Subcomm., Exec. Office of the President, *The National Artificial Intelligence Research and Development Strategic Plan 3* (2016), [https://obamawhitehouse.archives.gov/sites/default/files/whitehouse\\_files/microsites/ostp/NSTC/national\\_ai\\_rd\\_strategic\\_plan.pdf](https://obamawhitehouse.archives.gov/sites/default/files/whitehouse_files/microsites/ostp/NSTC/national_ai_rd_strategic_plan.pdf) [<https://perma.cc/2XSC-8774>]. Note that one of the authors of this Essay, Jason Schultz, was a member of the Office of Science and Technology Policy AI Policy Team during this period and contributed to some of the Team's reports. The Trump Administration has also flagged some of these issues in the President's recent executive order on artificial intelligence. See Exec. Order No. 13,859, 84 *Fed. Reg.* 3967 (Feb. 11, 2019). However, it is unclear exactly what efforts will be made as the order does not provide any direction, resources, or other guidance on how to proceed.

17. Admin. Conference of the U.S., *supra* note 13.

18. See, e.g., Idaho Code § 19-1910 (2019) (establishing that all pretrial risk assessment tools should be transparent and open to public assessment); DJ Pangburn, *How to Lift the Veil off Hidden Algorithms*, *Fast Company* (Jan. 28, 2019), <https://www.fastcompany.com/90292210/transparency-government-software-algorithms> [<https://perma.cc/2DAN-G4EV>] (noting algorithmic accountability efforts in Washington State; Santa Clara County, California; Oakland, California; Berkeley, California; New York City; and Seattle); New York City Automated Decisions Task Force, NYC.gov, <https://www1.nyc.gov/site/adstaskforce/index.page> [<https://perma.cc/64H5-PNDM>] (last visited July 29, 2019) (describing the composition and purpose of New York City's task force to evaluate the implications of automation in the city's decisionmaking).

Behind the scenes, however, government use of privately designed algorithmic systems is increasing. For example, there have been reports—but little meaningful public disclosure—on the development of various systems within Immigration and Customs Enforcement that raise constitutional concerns, including at least one system provided by the well-known data analytics firm Palantir.<sup>19</sup> In particular, evidence that has recently come to light suggests that Palantir helped provide the “intelligence” to identify and separate undocumented immigrant children from their families.<sup>20</sup> Another example is the Trump Administration’s recent budget request to Congress, which included a section from the Social Security Administration (SSA) explaining that it would study “whether to expand the use of social media networks in disability determinations, partly to help identify fraud.”<sup>21</sup> While the current budget proposal discusses human monitoring,<sup>22</sup> a separate SSA document notes that it is developing an “Anti-Fraud Enterprise Solution,” which will “integrate data from multiple sources and use industry-proven predictive analytics software to identify high-risk transactions for further review.”<sup>23</sup> The

---

19. See Nat’l Immigration Project of the Nat’l Lawyers Guild, Immigrant Def. Project & Mijente with Empower, LLC & Ford Found., *Who’s Behind ICE? The Tech and Data Companies Fueling Deportations* 31–35, 38, 43–45 (2018), [https://mijente.net/wp-content/uploads/2018/10/WHO’S-BEHIND-ICE\\_-The-Tech-and-Data-Companies-Fueling-Deportations\\_v3-.pdf](https://mijente.net/wp-content/uploads/2018/10/WHO’S-BEHIND-ICE_-The-Tech-and-Data-Companies-Fueling-Deportations_v3-.pdf) [<https://perma.cc/WN7H-2YVH>] (“Palantir’s new Integrated Case Management (ICM) system for ICE plays a key role in this information sharing with law enforcement.”); Manish Singh, *Palantir’s Software Was Used for Deportation, Documents Show*, TechCrunch (May 3, 2019), <https://techcrunch.com/2019/05/03/palantirs-software-was-used-for-deportations-documents-show/> [<https://perma.cc/Q8YE-SKRY>]; Spencer Woodman, *Palantir Provides the Engine for Donald Trump’s Deportation Machine*, The Intercept (Mar. 2, 2017), <https://theintercept.com/2017/03/02/palantir-provides-the-engine-for-donald-trumps-deportation-machine/> [<https://perma.cc/YA9-HNAX>].

20. See April Glaser, *Palantir Said It Had Nothing to Do with ICE Deportations. New Documents Seem to Tell a Different Story.*, Slate (May 2, 2019), <https://slate.com/technology/2019/05/documents-reveal-palantir-software-is-used-for-ice-deportations.html> [<https://perma.cc/9Y9B-RUQ9>].

21. Robert Pear, *On Disability and on Facebook? Uncle Sam Wants to Watch What You Post*, N.Y. Times (Mar. 10, 2019), <https://www.nytimes.com/2019/03/10/us/politics/social-security-disability-trump-facebook.html> (on file with the *Columbia Law Review*).

22. See Soc. Sec. Admin., *Fiscal Year 2020 Budget Overview* 26 (2019), [https://www.ssa.gov/budget/FY20Files/2020BO\\_1.pdf](https://www.ssa.gov/budget/FY20Files/2020BO_1.pdf) [<https://perma.cc/9R42-LYL8>] (“In FY 2019, we are evaluating how social media could be used by disability adjudicators in assessing the consistency and supportability of evidence in a claimant’s case file.”).

23. Soc. Sec. Admin., *Annual Performance Report: Fiscal Years 2017–2019*, at 26 (2018), <https://www.ssa.gov/budget/FY19Files/2019APR.pdf> [<https://perma.cc/RC88-RPTM>]. For a discussion of government use of AI in the child welfare context, see Virginia Eubanks, *Automating Inequality: How High-Tech Tools Profile, Police, and Punish the Poor* 127–73 (2017) (discussing the use of the Allegheny Family Screening Tool to “forecast child abuse and neglect” for child welfare decisions); Dan Hurley, *Can an Algorithm Tell When Kids Are in Danger?*, N.Y. Times Mag. (Jan. 2, 2018), <https://www.nytimes.com/2018/01/02/magazine/can-an-algorithm-tell-when-kids-are-in-danger.html> (on file with the *Columbia Law Review*) (“Allegheny’s Family Screening Tool is drawing interest from child-protection agencies around the country.”).

Trump Administration's 2019 executive order on artificial intelligence also lays the path for all federal agencies to adopt AI systems moving forward.<sup>24</sup>

As we slowly learn more about these systems, it is becoming clear that they represent a range of public-private configurations. Some are developed entirely "in-house" by government,<sup>25</sup> others by contractors or as a licensed service,<sup>26</sup> or even as a "donation,"<sup>27</sup> which may impede oversight. But few publicly available documents note specifically how constitutional accountability is allocated in each system, especially within joint public-private endeavors.

---

24. See Cade Metz, Trump Signs Executive Order Promoting Artificial Intelligence, *N.Y. Times* (Feb. 11, 2019), <https://www.nytimes.com/2019/02/11/business/ai-artificial-intelligence-trump.html> (on file with the *Columbia Law Review*) ("The administration . . . will call on government agencies to develop fellowships related to A.I.").

25. Craig McCarthy, NYPD Uses New Tool to Find Crime Patterns: Officials, *N.Y. Post* (Mar. 10, 2019), <https://nypost.com/2019/03/10/nypd-uses-new-tool-to-find-crime-patterns-officials/> [<https://perma.cc/9MSH-W8FP>] ("The software, designed in-house over two years and dubbed Patternizr, automates traditional police legwork through machine learning to find patterns in crimes.").

26. See, e.g., William Alden, There's a Fight Brewing Between the NYPD and Silicon Valley's Palantir, *BuzzFeed News* (June 28, 2017), <https://www.buzzfeednews.com/article/williamalden/theres-a-fight-brewing-between-the-nypd-and-silicon-valley> [<https://perma.cc/R95V-LXTH>] (describing the NYPD's software contract with Palantir); Rich Duprey, Why I Think Axon Enterprise's Q4 Earnings Miss Is a Gift to Investors, *Motley Fool* (Mar. 4, 2019), <https://www.fool.com/investing/2019/03/04/why-i-think-axon-enterprises-q4-earnings-miss-is-a.aspx> [<https://perma.cc/76KU-FY9A>] (last updated Apr. 10, 2019) (explaining how law enforcement agencies use Axon's software to manage and analyze data from body cameras); Clare Garvie, Alvaro Bedoya & Jonathan Frankle, The Perpetual Line-Up: Unregulated Police Face Recognition in America, *Georgetown Law Ctr. on Privacy & Tech.* (Oct. 18, 2016), <https://www.perpetuallineup.org> [<https://perma.cc/G76J-DLZL>] (reporting that some police departments have purchased facial recognition software from third parties); George Joseph & Kenneth Lipp, IBM Used NYPD Surveillance Footage to Develop Technology that Lets Police Search by Skin Color, *The Intercept* (Sept. 6, 2018), <https://theintercept.com/2018/09/06/nypd-surveillance-camera-skin-tone-search/> [<https://perma.cc/W9JE-Z43W>] (describing the NYPD's use of IBM video surveillance software "to identify suspicious objects and persons"); Lecher, *supra* note 7 (explaining that Arkansas used a third-party vendor to develop an algorithm to assess eligibility for disability benefits); Daniela Silva & Cyrus Farivar, ACLU Calls for U.S. Law Enforcement to Stop Sharing License Plate Data with ICE, *NBC News* (Mar. 13, 2019), <https://www.nbcnews.com/tech/security/aclu-calls-u-s-law-enforcement-stop-sharing-license-plate-n983021> [<https://perma.cc/HH5N-3NGM>] (noting that ICE contracts with a vendor to access data from automated license plate readers).

27. See, e.g., Michelle Chen, Beware of Big Philanthropy's New Enthusiasm for Criminal Justice Reform, *Nation* (Mar. 16, 2018), <https://www.thenation.com/article/beware-of-big-philanthropys-new-enthusiasm-for-criminal-justice-reform/> [<https://perma.cc/UCS4-TRAT>] (discussing the Koch brothers' philanthropic network's "Safe Streets and Second Chances" initiative for reducing recidivism using "technology-driven reentry programs"); Ali Winston, New Orleans Ends Its Palantir Predictive Policing Program, *The Verge* (Mar. 15, 2018), <https://www.theverge.com/2018/3/15/17126174/new-orleans-palantir-predictive-policing-program-end> [<https://perma.cc/AHM6-4V3X>] (reporting that the New Orleans Police Department had a pro bono contract to use Palantir's software "to identify potential aggressors and victims of violence").

A. *Litigating AI Accountability: Four Case Studies*

In mapping AI accountability, one often overlooked resource is the courtroom, “where evidence, expert testimony, and judicial scrutiny reveal new insights into the current state of AI systems.”<sup>28</sup> Recently, we spearheaded an effort via the AI Now Institute, in partnership with the New York University School of Law’s Center on Race, Inequality, and the Law and the Electronic Frontier Foundation, “to conduct an examination of current United States courtroom litigation where the use of algorithms by government was central to the rights and liberties at issue in the case.”<sup>29</sup> Our first report focused primarily on three case studies in which AI decisionmaking systems were already prevalent in government: (1) Medicaid and disability benefits,<sup>30</sup> (2) public teacher employment evaluations,<sup>31</sup> and (3) criminal risk assessment.<sup>32</sup> At our most recent workshop, we learned about new litigation involving the use of algorithmic decision systems in unemployment benefits.<sup>33</sup>

1. *Medicaid and Disability Benefits.* — Our first session began with the story of Tammy Dobbs, who has cerebral palsy. In 2008, Tammy moved from Missouri to Arkansas, where she was able to sign up for a state Medicaid waiver program to pay for a caretaker.<sup>34</sup> Tammy uses a wheelchair and does not have full use of her hands, so she needs help with many basic daily tasks, such as going to the bathroom and bathing.<sup>35</sup> The initial nurse that assessed Tammy under the program decided that she should have fifty-six hours of home care per week, the maximum allowable.<sup>36</sup> This all changed in 2016 when Tammy’s annual assessment came with a new decisionmaker—an algorithm on a laptop computer.<sup>37</sup> The human assessor asked similar questions to those asked in previous years, but after entering the answers into the algorithmic system, Tammy’s allowable care hours were reduced to thirty-two hours per week from fifty-six.<sup>38</sup> Worse yet, the computer system provided no explanation or opportunity to discuss the change, let alone guidance on how Tammy would be able to adjust to the reduction in home care hours.<sup>39</sup> The

---

28. Litigating Algorithms Announcement, *supra* note 1.

29. *Id.*; see also Litigating Algorithms, *supra* note 4, at 3.

30. Litigating Algorithms, *supra* note 4, at 7–9.

31. *Id.* at 10.

32. *Id.* at 13–14.

33. See Rashida Richardson, Jason M. Schultz & Vincent M. Southerland, AI Now Inst., Litigating Algorithms Report 2019 US Report (2019), <https://ainowinstitute.org/litigatingalgorithms-2019-us.pdf> [<https://perma.cc/8GAD-3WB3>] [hereinafter Litigating Algorithms 2019].

34. See Lecher, *supra* note 7.

35. *Id.*

36. *Id.*

37. *Id.*

38. *Id.*

39. See *id.*



human who accompanied the computerized decisionmaker couldn't help either, nor would the state when Tammy complained.<sup>40</sup>

Unfortunately, the story of Tammy Dobbs was not an isolated one. Hundreds of disabled Arkansans saw their care hours suddenly and drastically cut. They began to complain to the state, and later to attorneys, such as Legal Aid's Kevin De Liban, about the systematic and unexplained cuts in their disability benefits.<sup>41</sup> These cuts were all apparently the result of a new algorithmic system—an early form of AI—that the state had adopted as a cost-saving measure in an era when budgets were tight and healthcare costs continued to rise.<sup>42</sup> And Arkansas wasn't alone. A similar situation had also developed in Idaho under their Medicaid program.<sup>43</sup> Ultimately, both De Liban and the ACLU of Idaho sued in their respective states, claiming that the “faulty algorithmic decision systems improperly diminished or terminated benefits and services to individuals with intellectual, developmental, and physical disabilities.”<sup>44</sup> The plaintiffs prevailed in both of these lawsuits, using a combination of constitutional and statutory claims to enjoin the use of these programs.<sup>45</sup> The failure of the state to provide adequate notice of the change—or an explanation of how the new algorithmic system would work—was central

---

40. See *id.*

41. See *id.*

42. See *id.* (explaining that the “state ha[d] been prompted to look for new ways to contain costs and distribute what resources they ha[d]” available for healthcare).

43. See *id.* (“[T]he state [of Idaho] made an attempt, like Arkansas, to institute an algorithm for allocating home care and community integration funds.”); see also Leo Morales, *Federal Court Rules Against Idaho Department of Health and Welfare in Medicaid Class Action*, ACLU Idaho (Mar. 30, 2016), <https://acluidaho.org/en/news/federal-court-rules-against-idaho-department-health-and-welfare-medicaid-class-action> [<https://perma.cc/CNA8-MVWS>] (discussing a case involving the Idaho Department of Health and Welfare's automated decision system).

44. *Litigating Algorithms*, *supra* note 4, at 7; see also *K.W. ex rel. D.W. v. Armstrong*, 180 F. Supp. 3d 703, 718 (D. Idaho 2016) (finding that the algorithmic system used to calculate Medicaid benefits violated due process); *Ark. Dep't of Human Servs. v. Ledgerwood*, 530 S.W.3d 336, 342–43 (Ark. 2017) (upholding an order enjoining the state from using its algorithm-based assessment tool to calculate attendant care hours, and finding irreparable harm to profoundly disabled beneficiaries). Disability rights advocates brought similar suits in West Virginia and Oregon. See *Michael T. v. Bowling*, No. 2:15-cv-09655, 2016 WL 4870284, at \*1–4 (S.D. W. Va. Sept. 13, 2016); *Order on Motion for Preliminary Injunction* at 2, *C.S. v. Saiki*, No. 6:17-cv-00564-MC (D. Or. filed Apr. 19, 2017); *Disability Rights Oregon Files Lawsuit About State Cuts in Home Care for Persons with Disabilities*, City of Portland (Apr. 19, 2017), <https://www.portlandoregon.gov/civic/article/635472> [<https://perma.cc/93GS-BHCE>].

45. *K.W.*, 180 F. Supp. 3d at 719–20 (outlining the due process violation arising from the lack of notice given to beneficiaries regarding their benefit calculations); *Ark. Dep't of Human Servs. v. Ledgerwood*, 571 S.W.3d 911, 913 (Ark. 2019) (explaining that, on remand, the Arkansas circuit court issued a permanent injunction on the use of the challenged program); *Class Action Settlement Agreement* at 2–3, *K.W.*, 180 F. Supp. 3d 703 (No. 1:12-cv-00022-BLW) (outlining the plaintiffs' due process, equal protection, and statutory claims).

to each decision, rendering the deployment of the systems illegal.<sup>46</sup> Notably, the question of how to address the individualized deprivations for each plaintiff remained undetermined upon remand to the respective trial courts.<sup>47</sup>

These cases, however, were not situations in which negligent or vindictive government officials actively sought to deprive beneficiaries of their entitlements. Rather, these cases emerged when agencies attempted to implement complex yet archaic algorithmic formulas in computer systems to govern benefit assessment and disbursement. These AI systems were implemented without meaningful training, support, or oversight, and without any specific protections for recipients.<sup>48</sup> This was due in part to the fact that they were adopted to produce cost savings and standardization under a monolithic technology-procurement model, which rarely takes constitutional liability concerns into account.<sup>49</sup> Instead, “these systems typically target populations that are considered the ‘most expensive,’ which often include the most politically, socially, and economically marginalized communities, who, because of their status, are more likely to need greater levels of support.”<sup>50</sup> Thus, an algorithmic system itself, optimized to cut costs without consideration of legal or policy concerns, created the core constitutional problems that ultimately decided the lawsuits.

These problems were also exacerbated as the result of a pattern that has emerged in which AI systems are adopted from state to state through a pattern of software contractor migration, by which AI vendors—like traveling sales representatives—usher the system from one state to another, training it on one state’s historical data and then applying it to the new population.<sup>51</sup> Through this migration, patterns of bias or

---

46. *Ledgerwood*, 530 S.W.3d at 341; see also *K.W.*, 180 F. Supp. 3d at 720 (“Crucial here is that the notice provide the reasons for the budget reduction so that the participant can challenge the reduction, and this requires the IAP to explain what she relied upon.”).

47. See, e.g., *K.W.*, 180 F. Supp. 3d at 722 (explaining that “[t]here are simply too many questions to rule as a matter of law” on either party’s motion for summary judgment regarding the plaintiffs’ individual claims).

48. See *Litigating Algorithms*, supra note 4, at 7; see also *Class Action Settlement Agreement*, supra note 45, at 6–9.

49. See *Litigating Algorithms*, supra note 4, at 7.

50. *Id.*

51. See *id.* (“Many states simply pick an assessment tool used by another state, trained on that other state’s historical data, and then apply it to the new population . . .”). Furthermore, “there are frequent flaws and errors in how these assessment systems are implemented and how they calculate the need for care.” *Id.* Government agencies adopting these systems commonly enter into contracts with third-party vendors that handle everything. See supra note 26. The agency, particularly frontline staff that are most familiar with the Medicaid program and its challenges, has little to no involvement in how the tool analyzes data and produces calculations. See *Litigating Algorithms*, supra note 4, at 7–8. Because these tools are often based on private systems licensed to government agencies, the design specifications and particularities of the technical system are considered trade secrets of the vendor and are not publicly available. *Id.* at 8.

discrimination can proliferate technologically outside of the actions or intentions of any individual state employee.<sup>52</sup>

In terms of litigation outcomes, a key finding was that these cases involved claims against the government agencies alone and not the third-party AI vendors.<sup>53</sup> In bringing their claims against traditional government actors, plaintiffs were able to succeed, in part, on constitutional due process and administrative law theories that challenged the lack of notice, explanation, and ability to comment on or contest the changes to public benefit systems.<sup>54</sup> This was especially relevant for the plaintiffs, who were individuals with intellectual or developmental disabilities. Notably, procedural due process claims were able to overcome some of the arguments that disclosure of the technical workings of the systems would violate trade secrecy laws, especially when central to the question of how various public benefits determinations were made.<sup>55</sup>

However, these victories offered the plaintiffs and their advocates neither accountability for the core violations they experienced nor any real sense of protection against future harms from similar AI systems. In these cases, the court was willing to rule against the government's use of an AI system when it was deployed without constitutionally proper notice or when it produced discriminatory or otherwise inaccurate determinations.<sup>56</sup> But the claims and the court's jurisdiction were limited solely to the government agency, which had little to no actual involvement in the design, training, implementation, or testing of the system. In a sense, the state was merely a shell to house unconstitutional activity, not the primary

---

52. See *Litigating Algorithms*, supra note 4, at 7.

53. See *K.W. ex rel. D.W. v. Armstrong*, 180 F. Supp. 3d 703, 706–07, 718 (D. Idaho 2016); *Ark. Dep't of Human Servs. v. Ledgerwood*, 530 S.W.3d 336, 339–40 (Ark. 2017).

54. In one case, “a court found that the state’s automated Medicaid budgeting system was so unreliable that it ‘arbitrarily deprive[d] participants of their property rights and hence violate[d] due process.’” Brief for the AI Now Institute, supra note 14, at 19 (quoting *K.W.*, 180 F. Supp. 3d at 718). In the same case, the court found that the state’s refusal to provide a manual for a disability scoring tool furnished by a private company frustrated patients’ ability to appeal. *K.W.*, 180 F. Supp. 3d at 717.

55. Another finding was the extent to which discovery of errors in the AI’s software design or implementation was connected to direct constitutional liability. Such connections were predicated on having access to technical information about the system and access to experts who have the ability to review and interpret the system, both of which can be difficult to obtain. For example, in the Arkansas case, the AI system allocating home healthcare to Medicaid patients failed to accurately understand the care needs of patients with conditions like cerebral palsy or multiple sclerosis. See *Ledgerwood*, 530 S.W.3d at 339–40, 343. Yet this was only discovered during the course of litigation, and only after the system’s code and its associated technical documentation had been carefully examined. See Letter from Kevin De Liban, Legal Aid of Ark., to Becky Murphy, Office of Policy Coordination & Promulgation 5–6 (July 31, 2018) (on file with the *Columbia Law Review*); Marci Manley, Working 4 You: A Formula for Care, Finding a Solution, KARK (Nov. 17, 2017), <https://www.kark.com/news/working-4-you-a-formula-for-care-finding-a-solution-2/> [<https://perma.cc/B7K5-URBK>].

56. See supra notes 44–46 and accompanying text.

actor responsible for perpetrating it. At the end of the day, the plaintiffs still had very little understanding of exactly how and why the AI system had reduced their benefits, and even less of an opportunity to hold accountable the private technology vendors who were primarily responsible for the harm. Constitutional accountability mechanisms in the courts inherently involve core judicial concepts such as access to the evidence of the harm<sup>57</sup> and invocation of the court's appropriate remedial and prophylactic powers.<sup>58</sup> In the Arkansas and Idaho litigation, as well as their sister cases throughout the country, constitutional accountability for the creators of the AI systems responsible for the harms has been entirely absent.

2. *Public Teacher Employment Evaluations.* — The second case study explored similar themes in one of the few successful cases challenging the use of proprietary algorithms to evaluate the performance of public employees. In this case, a school district in Texas implemented a “data-driven” teacher-evaluation model through privately developed third-party software that purported to compare the results of a teacher's students to classroom statistics across the state and within the teacher's prior performance record.<sup>59</sup> The teachers sued the district through their union, arguing that the software was fundamentally inscrutable and that there was no way for teachers to know whether the software was accurately assessing their job performance.<sup>60</sup> The court agreed, holding that the “teachers have no meaningful way to ensure correct calculation of their [evaluation] scores, and as a result are unfairly subject to mistaken deprivation of constitutionally protected property interests in their jobs.”<sup>61</sup> The court based its holding on procedural due process, finding that the teachers could proceed to trial on this constitutional issue.<sup>62</sup> The school district soon settled the case and stopped using the software.<sup>63</sup>

---

57. See Crawford & Schultz, *supra* note 5, at 116.

58. See *Marbury v. Madison*, 5 U.S. (1 Cranch) 137, 147 (1803) (explaining the “settled and invariable principle” that “every right, when withheld, must have a remedy”).

59. See *Hous. Fed'n of Teachers, Local 2415 v. Hous. Indep. Sch. Dist.*, 251 F. Supp. 3d 1168, 1171–72 (S.D. Tex. 2017) (“In 2010, HISD began its transition to a ‘data driven’ teacher appraisal system . . . . The focus of this litigation is on the third criterion, student performance, particularly HISD’s new method of rating teacher effectiveness based on proprietary algorithms belonging to a private company.”).

60. See *id.* at 1171.

61. *Id.* at 1180.

62. See *id.* at 1183 (denying summary judgment as to the plaintiffs’ procedural due process claim).

63. See Press Release, Am. Fed’n of Teachers, *Federal Suit Settlement: End of Value-Added Measures for Teacher Termination in Houston* (Oct. 10, 2017), <https://www.aft.org/press-release/federal-suit-settlement-end-value-added-measures-teacher-termination-houston> [<https://perma.cc/3256-7N99>]; see also *Federal Lawsuit Settled Between Houston’s Teacher Union and HISD*, Hous. Pub. Media (Oct. 10, 2017), <https://www.houstonpublicmedia.org/articles/news/2017/10/10/241724/federal-lawsuit-settled-between-houstons-teacher-union-and-hisd/> [<https://perma.cc/DF65-WN9F>].

Again, this case demonstrates one of the challenges of litigating AI claims when the entire algorithmic process is under the control of private third parties. Here, the challenged action was even more remote from the state than in the disability benefits cases discussed above. In this case, the state did not even house the AI system; instead, the system was built, trained, housed, and maintained entirely by a third-party software company, SAS Institute, Inc.<sup>64</sup> SAS fought to keep its source code, training data, and design as secret as possible, initially refusing to let the plaintiffs' experts see any of it and ultimately agreeing only to allow one expert to review the system under extreme constraints: only in the vendor's company office, only on a vendor laptop, and only with a pad of paper and a pen for note-taking.<sup>65</sup> While this lack of access ultimately supported the procedural due process ruling in favor of the teachers against the state,<sup>66</sup> it failed to provide any accountability mechanism against SAS that might have allowed the union to challenge the broader substantive concerns in the case, such as the union's equal protection claim or the claim that the system's determinations were arbitrary.

3. *Criminal Risk Assessment.* — The third case study focused on a juvenile sentencing hearing in Washington, D.C., in which the presiding judge declined to admit evidence from a long-standing "Violence Risk Assessment" system that had not been properly validated.<sup>67</sup> While the risk assessment in this case had not been implemented as part of an AI system, judges and other state actors at all levels of the criminal justice system rely on algorithmic tools to make decisions about detention and release.<sup>68</sup> In the case discussed at the workshop, participants noted:

---

64. See *Hous. Fed'n of Teachers*, 251 F. Supp. 3d at 1177–79; Plaintiffs' Original Complaint at 13, *Hous. Fed'n of Teachers*, 251 F. Supp. 3d 1168 (No. 4:14-cv-01189), 2014 WL 1724308.

65. See Plaintiffs' Response to Defendant's Motion for Summary Judgment at 41–42, *Hous. Fed'n of Teachers*, 251 F. Supp. 3d 1168 (No. 4:14-cv-01189), 2016 WL 9504197; see also Dr. Jesse Rothstein's Sworn Declaration Under Penalty of Perjury Pursuant to 28 U.S.C. § 1746 at 59–60, *Hous. Fed'n of Teachers*, 251 F. Supp. 3d 1168 (No. 4:14-cv-01189).

66. See *Hous. Fed'n of Teachers*, 251 F. Supp. 3d at 1175–80, 1183.

67. See *Litigating Algorithms*, supra note 4, at 13–14.

68. See Erin Harbinson, *Understanding 'Risk Assessment' Tools*, *Bench & B. Minn.*, Aug. 2018, at 14, 14–16. These tools purport to predict the risk that an individual will require rehabilitative resources while on parole, commit another offense after conviction, pose a threat to public safety, or fail to appear in court. See, e.g., *id.* at 16; see also Christopher Slobogin, *Principles of Risk Assessment: Sentencing and Policing*, 15 *Ohio St. J. Crim. L.* 583, 593–94 (2018). They rely on actuarial techniques to make predictions based on analysis of historical data. See Megan T. Stevenson & Christopher Slobogin, *Algorithmic Risk Assessments and the Double-Edged Sword of Youth*, 96 *Wash. U. L. Rev.* 681, 688 (2018); see also Ram, supra note 14, at 685. The appeal of risk assessment algorithms lies in their promise to objectively classify the likelihood of recidivism or failure to appear. See Aziz Z. Huq, *Racial Equity in Algorithmic Criminal Justice*, 68 *Duke L.J.* 1043, 1047 (2019). Without sufficient transparency, there is no way for the public to know whether any faults exist in a piece of software the government is using. See *State v. Loomis*, 881 N.W.2d 749, 763 (Wis. 2016), cert. denied, 137 S. Ct. 2290 (2017) (noting that transparency,

[T]hese violence risk assessment systems have a powerful influence over criminal sentencing outcomes, especially for children. . . . [A] “high risk” finding on one of these algorithmic assessments can result in [a juvenile offender] being sent to a psychiatric hospital or a secured detention facility, separating them from their family and drastically changing the course of their life. Moreover, young people often plead guilty to violent offenses on the condition that they will be eligible for probation rather than incarceration, if they comply with certain court requirements including algorithmic risk assessments. When the risk assessment produces a high risk score, that score changes the sentencing outcome and can remove probation from the menu of sentencing options the judge is willing to consider.

In examining these systems, many advocates have raised significant concerns about embedded racial bias. For example, most assessment systems include several risk factors that function as proxies for race. One risk factor that is often used is “parental criminality” which, given the long and well-documented history of racial bias in law enforcement, including the over-policing of communities of color, can easily skew “high risk” ratings on the basis of a proxy for race. “Community disorganization” is another influential risk factor if an individual lives in a neighborhood considered to be “violent” or near gang activity, which given the long and well-documented history of private and public housing discrimination, could skew “high risk” ratings on the basis of a proxy for race.<sup>69</sup>

Even though defense attorneys were able to convince the judge to find the risk assessment inadmissible in that case, the ruling has not barred that particular assessment system or others from being used in subsequent cases in that juvenile court or in other courts and law enforcement contexts across the country.<sup>70</sup> As numerous AI vendors continue to license these tools, they will continue to evade broader accountability in courtrooms if their systems must be challenged on a case-by-case basis and the remedy is limited to the exclusion of the tool from specific cases.

4. *Unemployment Benefits.* — A final case study comes from our most recent workshop, which was held in June 2019.<sup>71</sup> In 2013, Michigan governor Rick Snyder launched the Michigan Integrated Data Automated System (MiDAS), a \$47 million attempt to utilize the state’s vast internal

---

accuracy, and due process concerns require that “use of a COMPAS risk assessment must be subject to certain cautions”).

69. Litigating Algorithms, *supra* note 4, at 13.

70. See Beth Schwartzapfel, Can Racist Algorithms Be Fixed?, The Marshall Project (July 1, 2019), <https://www.themarshallproject.org/2019/07/01/can-racist-algorithms-be-fixed> [<https://perma.cc/KN46-J77Q>] (noting that some criminal justice advocacy groups encourage judges to use risk assessment algorithms “in context—as part of a larger decision-making framework that’s sensitive to issues of racial justice”).

71. Litigating Algorithms 2019, *supra* note 33.

databases to detect and “robo-determin[e]” findings of fraud among recipients of unemployment benefits.<sup>72</sup> Specifically, after cross-checking data with employers, other state agencies, and the federal government, MiDAS “searched for discrepancies in the records of unemployment compensation recipients” and, if it found any, alerted the state Unemployment Insurance Agency (UIA) so that the claimant’s file would be flagged as a potential case of misrepresentation.<sup>73</sup> When a file was flagged, MiDAS would initiate an automated process that attempted to transmit a multiple-choice questionnaire to the claimant, requiring a response within ten days.<sup>74</sup> However, because of the system’s configuration, many questionnaires never arrived.<sup>75</sup> Others went to dormant accounts or to accounts of individuals whose benefits had already expired.<sup>76</sup>

The questionnaire attempted to ask the recipient the following:

Did you intentionally provide false information to obtain benefits you were not entitle[d] to receive?

Yes            No

Why did you believe you were entitled to benefits?

1. I needed the money
2. I had not received payment when I reported for benefits
3. I reported the net dollar amount instead of the gross dollar amount paid
4. I did not understand how to report my earnings or separation reason
5. I thought my employer reported my earnings for me
6. Someone else certified (reported) for me
7. Someone else filed my claim for me
8. Other<sup>77</sup>

The system did not provide any other means of notice or response, and failure to respond to the questionnaire or *any* affirmative answer to even one question would result in a default determination that “the claimant knowingly and intentionally misrepresented or concealed information

---

72. See Ryan Felton, Michigan Unemployment Agency Made 20,000 False Fraud Accusations—Report, *Guardian* (Dec. 18, 2016), <https://www.theguardian.com/us-news/2016/dec/18/michigan-unemployment-agency-fraud-accusations> [https://perma.cc/KD39-KUYE]; see also Mich. Office of the Auditor Gen., Performance Audit Report: Michigan Integrated Data Automated System (MiDAS) 29 (2016), <https://audgen.michigan.gov/wp-content/uploads/2016/07/r641059315.pdf> [https://perma.cc/QXL4-JWT8].

73. See *Cahoo v. SAS Inst. Inc. (Cahoo II)*, 377 F. Supp. 3d 769, 771–72 (E.D. Mich. 2019) (“MiDAS’s electronic ‘cross-checking’ mechanism alerted the UIA when income was reported for claimants or when some activity affected a claimant’s eligibility for benefits.”).

74. *Id.* at 772.

75. *Id.*

76. *Id.*

77. *Cahoo v. SAS Analytics Inc.*, 912 F.3d 887, 893 (6th Cir. 2019).

to unlawfully receive benefits.”<sup>78</sup> Once the default determination was made, the UIA combined the MiDAS determination with its Enterprise Fraud Detection Software (provided by third-party vendor SAS Institute, Inc.) and sent the claimant a letter demanding repayment and assessing penalties plus interest, without any opportunity to appeal or otherwise contest the finding.<sup>79</sup> The penalties for nonpayment included “interception of the claimant’s state and federal income tax refunds, garnishment of wages, and legal collection activity.”<sup>80</sup>

Unfortunately for Snyder, the State of Michigan, and many of the recipients of its unemployment benefits, the system adjudicated over 22,000 fraud determinations with an error rate of 93%.<sup>81</sup> According to Steve Gray, the former director of Michigan Law’s Unemployment Insurance Clinic and the current head of the UIA, those wrongly accused of fraud were subjected to “highest-in-the-nation quadruple penalties” and often weren’t given sufficient notice of the adjudications to allow for proper appeals before the thirty-day deadline.<sup>82</sup> This resulted in an estimated tens of thousands of dollars per person in penalties, interest, and lost wages.<sup>83</sup> A subsequent class action lawsuit was brought against the State of Michigan over MiDAS on behalf of the class of recipients who had been wrongly accused.<sup>84</sup> In that case, the court found that the flaws in the MiDAS system had damaged plaintiffs and “eventually approved a settlement agreement in which the State agreed, among other things, to suspend all [MiDAS] collection activity.”<sup>85</sup>

---

78. *Id.* (quoting Plaintiff’s First Amended Class Action Complaint and Jury Demand at 17–18, *Cahoo v. SAS Inst. Inc.*, 322 F. Supp. 3d 772 (E.D. Mich. 2018) (No. 17-10657), 2017 WL 3405195). It is worth noting that this “matching” approach is quite similar to those that were used in Florida and Georgia to attempt to detect “voter fraud” with an “exact match” data-driven system prior to the 2018 elections. See generally Complaint, Ga. Coal. for the Peoples’ Agenda, Inc. v. Kemp, 347 F. Supp. 3d 1251 (N.D. Ga. 2018) (No. 1:18-cv-04727-ELR) (alleging that Georgia’s “Enet” system rejected registrations for voters if there was any mismatch between records on file with the Georgia Department of Drivers Services or Social Security Administration, even if the mismatch resulted from a government employee’s typographical error during data entry).

79. *Cahoo II*, 377 F. Supp. 3d at 772.

80. *Cahoo v. SAS Inst. Inc.* (*Cahoo I*), 322 F. Supp. 3d at 786.

81. Urging Your Support of the Bipartisan Legislative Package Reforming Michigan’s Unemployment Insurance System: Hearing Before the S. Oversight Comm., 2017 Leg., 99th Sess. 2 (Mich. 2017) (testimony of Steve Gray, Clinical Assistant Professor and Director, Unemployment Insurance Clinic, University of Michigan Law School), <http://www.senate.mi.gov/committee/MinTestimony/2017-2018/Oversight/Testimony/2017-SCT-OVER-11-30-1-05.PDF> [<https://perma.cc/V7CV-BV9Z>].

82. *Id.* at 2.

83. *Id.*

84. See *Zynda v. Arwood*, 175 F. Supp. 3d 791, 796–97 (E.D. Mich. 2016).

85. *Cahoo I*, 322 F. Supp. 3d at 784; see also Stipulated Order of Dismissal at 5, *UAW v. Arwood*, No. 2:15-cv-11449 (E.D. Mich. Feb. 2, 2017), [https://www.courtlistener.com/recap/gov.uscourts.mied.300638/gov.uscourts.mied.300638.51.0\\_1.pdf](https://www.courtlistener.com/recap/gov.uscourts.mied.300638/gov.uscourts.mied.300638.51.0_1.pdf) [<https://perma.cc/5P4E-Q6FP>].



However, as that case only addressed prospective relief against the state, plaintiffs brought a second class action lawsuit against both the individual state actors responsible for directly operating the system and the software companies that designed and implemented it for the state.<sup>86</sup> In that case, *Cahoo v. SAS Institute Inc.*, the complaint alleged that three separate technology vendors—FAST Enterprises, LLC; SAS Institute, Inc.; and CSG Government Solutions—“designed, created, implemented, or maintained the automated system employed by the UIA in adjudicating fraud determinations.”<sup>87</sup> The plaintiffs alleged that these companies were state actors and thus were liable under 42 U.S.C. § 1983 for “the deprivation of a right secured by the Constitution or laws of the United States . . . caused by a person acting under the color of state law.”<sup>88</sup>

In its decision on the defendants’ motions to dismiss, the court specifically held that “these contracted companies and individuals, working alongside state officials, played some role in implementing a defective system that placed a significant financial burden on unemployment beneficiaries, and they acted under color of state law when doing so.”<sup>89</sup> In other words, at least at the motion to dismiss stage of the civil case against them, the court found that the AI vendors were state actors. Exactly how and why is discussed in further detail below.<sup>90</sup>

## II. THE STATE ACTION DOCTRINE: A FRAMEWORK FOR PRIVATE ACTOR CONSTITUTIONAL ACCOUNTABILITY

While the above case studies show that pathways exist, to some degree, for holding governments accountable for how they use AI systems, they also highlight the stark fact that, until the *Cahoo* case, none of the third-party AI providers faced any liability for the constitutional harms their technology imposed. As shown below, this is largely because constitutional liability doctrines, including liability under 42 U.S.C. § 1983, have traditionally focused on the activities of public actors, such as government agencies or officials.<sup>91</sup> These doctrines operate under the assumption that government actors have both the greatest power and responsibility for upholding those rights and protections, and should therefore be held to the highest levels of accountability.<sup>92</sup> Meanwhile, private actors, such as corporations or citizens, need only be held accountable under traditional tort or regulatory approaches.<sup>93</sup> Or, as one

---

86. See *Cahoo I*, 322 F. Supp. 3d at 787–88.

87. *Id.* at 787.

88. *Id.* at 791 (citing *Dominguez v. Corr. Med. Servs.*, 555 F.3d 543, 549 (6th Cir. 2009)).

89. *Id.* at 784.

90. See *infra* Part II.

91. Lillian BeVier & John Harrison, *The State Action Principle and Its Critics*, 96 Va. L. Rev. 1767, 1786 (2010) (“Constitutional rules are almost all addressed to the government.”).

92. See *id.* at 1794–96.

93. See *id.* at 1794–97.

scholar puts it, “governmental power is, in general, more to be feared than nongovernmental power.”<sup>94</sup>

However, when private actors wield the power of the state, or “act under color of state law,” courts have sought to hold them as accountable as the state.<sup>95</sup> The state action doctrine mediates the border between private actors whose conduct is “fairly attributable to the state” and those whose conduct is seen as unrelated or external—a distinction that, despite its theoretical and formalistic dichotomy, has become increasingly difficult to maintain, if it even existed to begin with.<sup>96</sup> In particular, historical attempts to arbitrate constitutional protections through private sector “outsourcing” and the complex intertwining of public–private partnerships in the modern economy have challenged this separation as a sensible division in many arenas.<sup>97</sup> This is particularly problematic for AI systems, as the power and responsibility bestowed upon AI vendors to provide the functions of government is increasing dramatically. Thus, the applicability of the state action doctrine to AI vendors and their systems will be a central question for AI accountability going forward.<sup>98</sup>

To deal with this legacy and complexity, courts have been forced to evolve in their interpretation of the state action doctrine.<sup>99</sup> To assess

---

94. Frederick Schauer, *Acts, Omissions, and Constitutionalism*, 105 *Ethics* 916, 916–17 (1995).

95. See, e.g., *Lugar v. Edmondson Oil Co.*, 457 U.S. 922, 942 (1982) (“In summary, petitioner was deprived of his property through state action; respondents were, therefore, acting under color of state law in participating in that deprivation.”).

96. See Gillian E. Metzger, *Privatization as Delegation*, 103 *Colum. L. Rev.* 1367, 1410–26 (2003) (“[I]t does not require a very robust or expansive understanding of government power in order to make the point that current state action doctrine is under-inclusive.”).

97. See *id.* at 1400 (“Modern privatized government does not fit easily within the paradigms of U.S. constitutional law.”); see also Martha Minow, *Public and Private Partnerships: Accounting for the New Religion*, 116 *Harv. L. Rev.* 1229, 1230 (2003) (“The new versions of privatization potentially jeopardize public purposes by pressing for market-style competition, by sidestepping norms that apply to public programs, and by eradicating the public identity of social efforts to meet human needs.”); Neil Gordon, *Contractors and the True Size of Government*, POGO (Oct. 5, 2017), <https://www.pogo.org/analysis/2017/10/contractors-and-true-size-of-government/> [https://perma.cc/7WSG-S9RF] (noting that “[m]ore than 40 percent of the [federal government] workforce—about 3.7 million people—are contract workers”); Lorraine Woellert & John Bresnahan, *Sweeping Trump Proposal Seeks to Shrink Government, Merge Agencies*, *Politico* (June 21, 2018), <https://www.politico.com/story/2018/06/21/trump-shrink-federal-agencie-661976> [https://perma.cc/HYX3-XTSP] (explaining a proposal by the Trump Administration to privatize certain government entities such as Fannie Mae and Freddie Mac).

98. While some vendors may voluntarily attempt to provide versions of transparency or accountability—either for internal ethical reasons or because of external market pressures—the lack of any legal accountability remains a concern, especially in situations in which government actors have little or no incentive to impose accountability on vendors through the contractual or procurement processes.

99. See *Edmonson v. Leesville Concrete Co.*, 500 U.S. 614, 620 (1991) (“Although the conduct of private parties lies beyond the Constitution’s scope in most instances, governmental authority may dominate an activity to such an extent that its participants

constitutional liability for private parties under the state action doctrine, courts have generally applied three tests: (1) the public function test, which asks whether the private entity performed a function traditionally and exclusively performed by government;<sup>100</sup> (2) the compulsion test, which asks whether the state significantly encouraged or exercised coercive power over the private entity's actions;<sup>101</sup> and (3) the joint participation test, which asks whether the role of private actors was "pervasively entwined" with public institutions and officials.<sup>102</sup>

Despite this seemingly well-articulated approach, Supreme Court cases on the subject of state action have "not been a model of consistency,"<sup>103</sup> and therefore courts generally have "no single test to identify state actions and state actors."<sup>104</sup> Courts often look to "a host of facts that can bear on the fairness of an attribution of a challenged action to the State."<sup>105</sup> Thus, the fundamental question under each test is whether the

---

must be deemed to act with the authority of the government and, as a result, be subject to constitutional constraints."); *Blum v. Yaretsky*, 457 U.S. 991, 1002–05 (1982) ("[O]ur precedents indicate that a State normally can be held responsible for a private decision only when it has exercised coercive power or has provided such significant encouragement, either overt or covert, that the choice must in law be deemed to be that of the State."); *Lugar*, 457 U.S. at 936–37 (noting that "[i]t is a fundamental fact of our political order" that federal law limits constitutional liability to actions "fairly attributable to the State"). Note that "state action" has generally been found to be synonymous with "under color of law" in the Fourteenth Amendment context. See *United States v. Price*, 383 U.S. 787, 794 & n.7 (1966).

100. See *Manhattan Cmty. Access Corp. v. Halleck*, 139 S. Ct. 1921, 1933 (2019) (holding that a private nonprofit corporation designated by New York City to run a public access television channel was not a state actor bound by the First Amendment); *Rendell-Baker v. Kohn*, 457 U.S. 830, 835, 842 (1982) (applying the public function test in the context of the First, Fifth, and Fourteenth Amendments); *Flagg Bros., Inc. v. Brooks*, 436 U.S. 149, 158, 163 (1978) (noting that the public function test has "carefully confined bounds" because, "[w]hile many functions have been traditionally performed by governments, very few have been 'exclusively reserved to the State'"); *Jackson v. Metro. Edison Co.*, 419 U.S. 345, 352–54 (1974) (refusing to expand the public function test to include all actions of any business that is "affected with the public interest").

101. See *Am. Mfrs. Mut. Ins. Co. v. Sullivan*, 526 U.S. 40, 52–58 (1999) (holding that private insurers were not subject to constitutional liability when the state neither coerced nor encouraged the insurers' actions); *Rendell-Baker*, 457 U.S. at 841–43 (finding that a state-funded private school for children with special needs was not a state actor because there was no coercion or influence by the state on the challenged employment decision).

102. See *Brentwood Acad. v. Tenn. Secondary Sch. Athletic Ass'n*, 531 U.S. 288, 298–302 (2001) (finding that a private school association was a state actor due to the "pervasive entwinement" of its activities with public institutions and officials).

103. *Edmonson*, 500 U.S. at 632 (O'Connor, J., dissenting).

104. *Brentwood*, 531 U.S. at 294.

105. *Cooper v. U.S. Postal Serv.*, 577 F.3d 479, 491 (2d Cir. 2009) (internal quotation marks omitted) (quoting *Horvath v. Westport Library Ass'n*, 362 F.3d 147, 151 (2d Cir. 2004)); see also *Jackson*, 419 U.S. at 349–50 ("[T]he question whether particular conduct is 'private,' on the one hand, or 'state action,' on the other, frequently admits of no easy answer.").

private entity's challenged actions are "fairly attributable" to the state.<sup>106</sup> Below, we examine each test to determine its applicability to AI vendors.

A. *The Public Function Test*

The first test focuses on whether the private actor is engaged in a core governmental function that has been exclusively and traditionally performed by the state.<sup>107</sup> As the Supreme Court noted this term in *Manhattan Community Access Corp. v. Halleck*, very few "functions" remain exclusive to the state in the modern era of public-private partnerships and competition.<sup>108</sup> Rather, many functions are shared or more diversely administered—such as "administering insurance payments, operating nursing homes, providing special education, . . . supplying electricity,"<sup>109</sup> or—as the majority found in *Halleck*—"operating public access channels on a cable system."<sup>110</sup>

When a traditional and exclusive public function is "outsourced" to a private entity, however, it still may fall within the scope of the state action doctrine's purview.<sup>111</sup> For example, in *West v. Atkins*, the Supreme Court unanimously held that a private medical provider that contracted to run a clinic for a North Carolina prison engaged in state action by treating inmates.<sup>112</sup> There, the Court ruled that "the State was constitutionally obligated to provide medical treatment to injured inmates, and the delegation of that traditionally exclusive public function to a private physician gave rise to a finding of state action."<sup>113</sup> In holding the private medical provider liable as a state actor, the Court reasoned that "[c]ontracting out prison medical care does not relieve the State of its constitutional duty to provide adequate medical treatment to those in its custody, and it does not deprive the State's prisoners of the means to

---

106. *Rendell-Baker*, 457 U.S. at 838 (internal quotation marks omitted) (quoting *Lugar v. Edmondson Oil Co.*, 457 U.S. 922, 937 (1982)); see also *Am. Mfrs. Mut. Ins. Co.*, 526 U.S. at 50 (requiring the consideration of "whether the allegedly unconstitutional conduct is fairly attributable to the State"); *Burton v. Wilmington Parking Auth.*, 365 U.S. 715, 725–26 (1961) ("Owing to the very 'largeness' of government, a multitude of relationships might appear to some to fall within the Amendment's embrace, but that, it must be remembered, can be determined only in the framework of the peculiar facts or circumstances present.").

107. *Manhattan Cmty. Access Corp. v. Halleck*, 139 S. Ct. 1921, 1928–31 (2019); see also *Flagg Bros., Inc. v. Brooks*, 436 U.S. 149, 157–58 (1978) ("While many functions have been traditionally performed by governments, very few have been 'exclusively reserved to the State.'" (quoting *Jackson*, 419 U.S. at 352 (1974))).

108. *Halleck*, 139 S. Ct. at 1928–31 ("Under the Court's cases, those functions include, for example, running elections and operating a company town.").

109. *Id.* at 1929.

110. *Id.* at 1930.

111. *Id.* at 1929 n.1.

112. 487 U.S. 42, 55–58 (1988).

113. *Am. Mfrs. Mut. Ins. Co. v. Sullivan*, 526 U.S. 40, 55 (1999) (interpreting the *West* holding).

vindicate their Eighth Amendment rights.”<sup>114</sup> Even Justice Scalia in his concurrence in part agreed that “a physician who acts on behalf of the State to provide needed medical attention to a person involuntarily in state custody (in prison or elsewhere) and prevented from otherwise obtaining it,” is constitutionally liable when the physician “causes physical harm to such a person by deliberate indifference.”<sup>115</sup>

Two key considerations emerge from this analysis. First, the exclusivity of the function is not defined by competition—there are many medical providers in the world—but rather by the voluntary ability of the plaintiff to access (or obtain) the benefits of that functionality elsewhere. In *West*, because the plaintiff was a prisoner of the state, no such alternative access existed.<sup>116</sup> Second, the completely private status of the actor in question has little to do with constitutional liability. Instead, it is the role that actor plays in the administration of the state’s function that governs.

As a result, the public function theory often goes beyond the formalism of identifying functions by type and instead looks more deeply at the stakes of delegating the specific function at issue to private actors. For example, in *Giron v. Corrections Corp. of America*, the district court applied the doctrine to a private management company that ran a state prison.<sup>117</sup> There, the court reasoned that “[i]f a state government must satisfy certain constitutional obligations when carrying out its functions, it cannot avoid those obligations and deprive individuals of their constitutionally protected rights by delegating governmental functions to the private sector. . . . The delegation of the function must carry with it a delegation of constitutional responsibilities.”<sup>118</sup> Similarly, in *DeBauche v. Trani*, the Fourth Circuit found that a private party is a state actor “when the state has sought to evade a clear constitutional duty through delegation to a private actor. . . . [or] delegated a traditionally and exclusively public function to a private actor.”<sup>119</sup> In fact, the Supreme Court later went on to frame the public function approach as one almost imposing a legal duty of care on the government in the context of incarceration, explaining in *DeShaney v. Winnebago County Department of Social Services* that “when the State takes a person into its custody and holds him there against his will, the Constitution imposes upon it a corresponding duty to assume some responsibility for his safety and general well-being.”<sup>120</sup>

---

114. *West*, 487 U.S. at 56.

115. *Id.* at 58 (Scalia, J., concurring in part and concurring in the judgment).

116. See *id.* at 43–44 (majority opinion).

117. 14 F. Supp. 2d 1245, 1247–48 (D.N.M. 1998).

118. *Id.* at 1250 (citing *Terry v. Adams*, 345 U.S. 461 (1953)).

119. 191 F.3d 499, 507 (4th Cir. 1999).

120. 489 U.S. 189, 199–200 (1989); see also *West*, 487 U.S. at 55–56 (explaining that it was “the physician’s function within the state system” and not his nongovernmental status that drove the determination that his actions could “fairly be attributed to the State”); *Shields v. Ill. Dep’t of Corr.*, 746 F.3d 782, 797 (7th Cir. 2014) (“A business . . . that

Otherwise, the state would “be free to contract out all services which it is constitutionally obligated to provide and leave its citizens with no means for vindication of those rights.”<sup>121</sup> This approach to constitutional responsibility has also been extended to private transportation companies that serve prisons, as well as private residential treatment centers for children under the state’s custodial care.<sup>122</sup>

Such questions of function and responsibility played out in the recent *Halleck* case before the Supreme Court. Justice Kavanaugh, writing for the majority, framed the role of the private telecommunications corporation as merely providing and operating the forum of public access television, which is a nonexclusive function.<sup>123</sup> Justice Sotomayor, writing for the dissenters, argued that the corporation did much more than that, having accepted the state’s delegation of responsibility for administration and decisionmaking that was so central to the function of a public forum that constitutional liability was appropriate.<sup>124</sup>

Thus, when private AI vendors provide their software to governments to fulfill duties that are specifically tied to a state’s overall public and constitutional obligations, the possibility of the vendor being held a state actor becomes a reality. For example, when governments use privately provided AI systems to support determinations of criminal propensity<sup>125</sup> or child welfare interventions,<sup>126</sup> the traditional and exclusive nature of those functions, along with their constitutional obligations, puts the AI provider in a similar role to the physician in *West*. The key question, then, is whether AI vendors—and the systems they create—are merely tools that government employees use to perform state functions,

---

contracts to provide medical care to prisoners undertakes ‘freely, and for consideration, responsibility for a specific portion of the state’s overall [constitutional] obligation to provide medical care for incarcerated persons.’” (alteration in original) (quoting *Rodriguez v. Plymouth Ambulance Serv.*, 577 F.3d 816, 827 (7th Cir. 2009)).

121. *West*, 487 U.S. at 56 n.14 (internal quotation marks omitted) (quoting *West v. Atkins*, 815 F.2d 993, 998 (4th Cir. 1987) (Winter, C.J., concurring and dissenting)).

122. See *Lemoine v. New Horizons Ranch & Ctr.*, 990 F. Supp. 498, 501–02 (N.D. Tex. 1998) (finding that where the state provides housing, food, medical, and educational services to children involuntarily committed to private juvenile residential treatment centers, the owners and employees of those centers may be considered state actors, even when the state has delegated full authority to administer care to the private actor); see also *Nguyen v. Prisoner Transp. Servs.*, No. 3:18-cv-00871, 2019 WL 429678, at \*4 (M.D. Tenn. Feb. 4, 2019) (collecting cases of prison transport companies held to be state actors because they could not have performed those services without state authorization).

123. See *Manhattan Cmty. Access Corp. v. Halleck*, 139 S. Ct. 1921, 1929–31 (2019) (“[M]erely hosting speech by others is not a traditional, exclusive public function and does not alone transform private entities into state actors . . .”).

124. See *id.* at 1940 (Sotomayor, J., dissenting) (“When a government (1) makes a choice that triggers constitutional obligations, and then (2) contracts out those constitutional responsibilities to a private entity, that entity—in agreeing to take on the job—becomes a state actor for purposes of § 1983.”).

125. The COMPAS system provides one example. See Angwin et al., *supra* note 6.

126. See Hurley, *supra* note 23.

or whether the vendor systems perform the functions themselves.<sup>127</sup> If one views the provision of AI as simply the latest technological “tool”—like the provision of a hammer—to the state, then the private vendors are outside the definition of state action. On the other hand, when the purpose of the AI is to support or take on a role in the decisionmaking functions of a government official, one could easily imagine a court finding that work fitting within the public function test, more similar to the *West* example of the private medical professional using his professional judgment in deciding which medical services to provide as opposed to simply providing a scalpel or X-ray machine to a prison hospital.

In fact, many AI vendors specifically optimize their systems to attempt to approximate what a human actor would decide in a similar situation.<sup>128</sup> Take, for example, the Allegheny Family Screening Tool (AFST), an AI system that attempts to forecast child abuse and neglect so that child welfare workers can intervene preemptively and prevent “increased occurrences of drug and alcohol abuse, suicide attempts, and depression” among children in abusive or neglectful situations.<sup>129</sup> The tool, created by a team from Auckland University of Technology, purports to rank the danger of a child’s situation from “a green 1 (lowest risk) at the bottom to a red 20 (highest risk) on top.”<sup>130</sup> According to one report, AFST was based on a statistical analysis of prior child welfare calls, including “100 criteria maintained in eight databases for jails, psychiatric services, public-welfare benefits, drug and alcohol treatment centers.”<sup>131</sup>

When vendors supply AI systems to government agencies, the results of the decisions and actions taken are not only attributable to the state but also effectuated through it. In particular, when AI systems are designed specifically for use in governmental domains, such as criminal justice, benefits determinations, or public employment, the conclusion that

---

127. Note that we discuss AI systems here because, while vendors provide them currently, they may at some point become so sophisticated that constitutional liability may need to apply to these systems themselves. Of course, therein lies a problem with remedies. See Mark Lemley & Bryan Casey, Remedies for Robots 3 (Stanford Law & Econ. Olin Working Paper No. 523, 2018), <https://ssrn.com/abstract=3223621> (on file with the *Columbia Law Review*) (“[I]t turns out to be much harder for a judge to ‘order’ a robot, rather than a human, to engage in or refrain from certain conduct.”).

128. See Ke Li, Learning to Optimize with Reinforcement Learning, Berkeley Artificial Intelligence Research (Sept. 12, 2017), <https://bair.berkeley.edu/blog/2017/09/12/learning-to-optimize-with-rl/> [<https://perma.cc/P2LT-8UHX>] (describing optimization techniques that attempt to replicate in “concrete algorithms” the process by which “humans not only reason, but also reason about their own process of reasoning”).

129. Virginia Eubanks, A Child Abuse Prediction Model Fails Poor Families, WIRED (Jan. 15, 2018), <https://www.wired.com/story/excerpt-from-automating-inequality/> [<https://perma.cc/6QLL-HE69>].

130. Hurley, *supra* note 23.

131. *Id.*

their design is a core public function is not difficult to imagine.<sup>132</sup> For example, the MiDAS and Enterprise Fraud Detection Software (EFDS) tools in the *Cahoo* case<sup>133</sup> were specifically designed, developed, and implemented to automate the determination of which unemployment beneficiaries to investigate and penalize, a set of decisions previously—and, after the litigation, subsequently—initiated, conducted, and supervised by government employees.<sup>134</sup>

All of the case studies above demonstrate situations in which algorithmic and AI systems are performing traditional public functions. In the disability cases, it is the function of assessing and recommending public benefit eligibility.<sup>135</sup> In the public employment context, it is the function of assessing and recommending human resources actions.<sup>136</sup> In the criminal justice context, it is the function of evaluating the dangerousness of a defendant.<sup>137</sup> And in the unemployment benefits context, it is the function of investigating and enforcing antifraud regulations.<sup>138</sup> Thus, in many contexts, the case for considering AI vendors as performing public functions could be quite strong.

#### B. *The Compulsion Theory*

The second test asks whether the action taken by private entities was encouraged, controlled, or compelled by the state, rather than being done with the “mere approval or acquiescence of the State,”<sup>139</sup> or, as it was continually framed in the recent oral argument in *Manhattan Community Access Corp. v. Halleck*, the extent to which the private entity has discretion to make substantive choices that impact constitutional concerns.<sup>140</sup>

For government use of AI, the determination would be quite fact dependent, but to the extent that any allegations of constitutional liability were based on inputs or designs given to the vendor by the state, this could qualify. For example, in *Cahoo*, the complaint alleged that CSG, the

---

132. Note that this would not impact the provision of general-purpose software or even general-purpose AI to government agencies. Cf. *Jackson v. Metro. Edison Co.*, 419 U.S. 345, 358–59 (1974) (finding private utility companies, even heavily regulated ones, not to be state actors).

133. See *infra* sections II.B–C for a discussion of the alternative state action theories addressed in *Cahoo*.

134. See *Cahoo I*, 322 F. Supp. 3d 772, 785, 788 (E.D. Mich. 2018), *aff'd in part and rev'd in part*, 912 F.3d 887 (6th Cir. 2019).

135. See *supra* section I.A.1.

136. See *supra* section I.A.2.

137. See *supra* section I.A.3.

138. See *supra* section I.A.4.

139. *Am. Mfrs. Mut. Ins. Co. v. Sullivan*, 526 U.S. 40, 52 (1999).

140. See Transcript of Oral Argument at 46, *Manhattan Cmty. Access Corp. v. Halleck*, 139 S. Ct. 1921 (2019) (No. 17-1702), 2019 WL 2493920 (“If [the private party] has discretion so it can exercise editorial control, then it would not be a public forum.”).



software company that ran and administered the UIA Project Control Office, was charged to do so by the State of Michigan and “received significant encouragement from the State when it implemented, configured, administered and maintained the defective and unconstitutional fraud detection system.”<sup>141</sup> Moreover, the contract between CSG and the State of Michigan allegedly delegated managerial authority over the entire project to CSG.<sup>142</sup> In this sense, the state could be seen to have compelled CSG to take actions subject to constitutional liability.

In the other case studies, there are similar elements of compulsion. For example, in the *Houston Federation of Teachers* case, the key algorithmic inputs—student test scores—were provided entirely by the state, and the federal government required the “value-added” model upon which the AI system was based as a condition to receive \$4.35 billion in Race to the Top funds.<sup>143</sup> In the disability benefits cases, much of the logic of the systems and the classification of conditions stems from mandatory state and federal regulations.<sup>144</sup> On the other hand, in criminal risk assessment cases in which the judge ultimately retains the discretionary authority to impose detention and other sentencing conditions, the doctrine might be less applicable.<sup>145</sup> Thus, for AI, the question of who controls the decisions for the design and implementation of the systems, including who provides the data to train and test the system, is relevant.<sup>146</sup>

---

141. *Cahoo I*, 322 F. Supp. 3d 772, 793 (E.D. Mich. 2018), aff’d in part and rev’d in part, 912 F.3d 887 (6th Cir. 2019).

142. *Id.*

143. Audrey Amrein-Beardsley & Mark A. Paige, “Houston, We Have a Lawsuit:” A Cautionary Tale for the Implementation of Value-Added Models (VAMs) for High-Stakes Employment Decisions 1 (unpublished manuscript) (on file with the *Columbia Law Review*).

144. See, e.g., *Michael T. v. Bowling*, No. 2:15-cv-09655, 2016 WL 4870284, at \*1 (S.D. W. Va. Sept. 13, 2016) (explaining that, “[o]nce a state elects to provide an optional [Medicaid] service” like home-based disability care, “it must adhere to the pertinent federal statutes and regulations”).

145. See, e.g., *State v. Loomis*, 881 N.W.2d 749, 768 (Wis. 2016) (explaining that risk assessment tools are “merely one tool available to a court at the time of sentencing and a court is free to rely on portions of the assessment while rejecting other portions”).

146. See, e.g., *Petition for Writ of Certiorari* at 28, *Manhattan Cmty. Access Corp. v. Halleck*, 139 S. Ct. 1921 (2019) (No. 17-1702), 2018 WL 3129068 (“[B]ecause ‘decisions regarding the programming on public access cable channels in the District of Columbia [are not alleged to] in any way [be] controlled by the District of Columbia government,’ ‘there is no state actor and thus no viable Section 1983 claim.’” (alterations in original) (quoting *Glendora v. Sellers*, No. 1:02-cv-00855, slip op. at 6 (D.D.C. Mar. 31, 2003))). This has also emerged as a basis for finding state action within the context of the Fourth Amendment and private party searches when the private party acts as “an agent or instrument of the [g]overnment.” *Gray & Citron*, supra note 5, at 135–36 (internal quotation marks omitted) (quoting *Skinner v. Ry. Labor Execs.’ Ass’n*, 489 U.S. 602, 614–15 (1989)).

C. *The Joint Participation Theory*

The third test for state action asks whether the government was significantly involved in the challenged action that is alleged to have caused the constitutional harm, so much so that the two entities can be considered joint participants.<sup>147</sup> For example, in *Brentwood Academy v. Tennessee Secondary School Athletic Ass'n*, the Supreme Court held that the private association was a state actor in part because a substantial majority of its members were public schools and public school officials “overwhelmingly perform all but the purely ministerial acts by which the Association exists and functions.”<sup>148</sup> By contrast, in *Blum v. Yaretsky*, the Court considered “whether the decision of nursing homes to transfer or discharge patients constituted state action in light of the state’s requirement that physicians certify the medical necessity of nursing home services on a ‘long term care placement form’ devised by the state.”<sup>149</sup> The Court found no state action, holding that even though the state had created the form for evaluating patients, “the physicians, and not the forms, make the decision about whether the patient’s care is medically necessary.”<sup>150</sup> Instead, a plaintiff must show that the state actor and the private party acted jointly—for example, by carrying out “a deliberate, previously agreed upon plan” or engaging in activity constituting “a conspiracy or meeting of the minds.”<sup>151</sup> Examples such as *Brentwood Academy* and *Blum* attempt to define the contours of the joint participation test in terms of specific human and organizational activities.<sup>152</sup> If the government were merely involved through standard setting but not active decisionmaking, no joint participation exists. However, as the *Brentwood* Court acknowledges, “What is fairly attributable [to the state] is a matter of normative judgment, and the criteria lack rigid simplicity.”<sup>153</sup>

In *Cahoo*, the court found that two software companies were so entangled in allegedly unconstitutional conduct that they could potentially be found liable as state actors.<sup>154</sup> As to the first company, CSG

---

147. See *Lugar v. Edmondson Oil Co.*, 457 U.S. 922, 941–42 (1982).

148. 531 U.S. 288, 298–302 (2001).

149. *Sybalski v. Indep. Grp. Home Living Program, Inc.*, 546 F.3d 255, 258–59 (2d Cir. 2008) (quoting *Blum v. Yaretsky*, 457 U.S. 991, 1006 (1982)).

150. *Id.*

151. *Dahlberg v. Becker*, 748 F.2d 85, 93 (2d Cir. 1984); see also *West v. Atkins*, 487 U.S. 42, 51 (1988) (“The Manual governing prison health care in North Carolina’s institutions, which Doctor Atkins was required to observe, declares: ‘The provision of health care is a joint effort of correctional administrators and health care providers, and can be achieved only through mutual trust and cooperation.’”); *Wilcher v. City of Akron*, 498 F.3d 516, 520 (6th Cir. 2007) (holding that the cable provider did not work “hand-in-glove” with the government to enact the challenged rules and regulations).

152. See *Brentwood*, 531 U.S. at 295–97; *Blum*, 457 U.S. at 1006.

153. *Brentwood*, 531 U.S. at 295.

154. See *Cahoo I*, 322 F. Supp. 3d 772, 793 (E.D. Mich. 2018), *aff’d in part and rev’d in part*, 912 F.3d 887 (6th Cir. 2019). A third technology vendor, FAST, did not contest that it was a state actor for purposes of the lawsuit. See *id.* at 791.

Government Solutions, the court cited allegations that CSG had directly participated in the administration of unemployment benefits, “a power traditionally exclusively reserved to the State.”<sup>155</sup> It also found that the contract between the State of Michigan and CSG had delegated “managerial authority” over the development of MiDAS to CSG as the state’s application development and implementation vendor responsible for “the timely delivery of quality information technology services for all stakeholders of the [MiDAS] project.”<sup>156</sup> The court also cited the allegations that CSG was responsible for “utilizing and mentoring” state employees on the project.<sup>157</sup> Thus, the court found that these allegations supported a theory that CSG, “acting in concert with the State, was ‘entwined’ with the UIA in administering and maintaining the robo-fraud-adjudication system that deprived the plaintiffs of their constitutional rights.”<sup>158</sup>

As to SAS, the court found that plaintiffs had successfully pled a § 1983 claim because they had alleged that SAS, acting under the color of state law, “designed, created, implemented, maintained, configured and controlled” the EFDS, which UIA used “to make unemployment insurance fraud determinations.”<sup>159</sup> According to the contract between the state and SAS, SAS agreed that the EFDS would “utilize[] data from the Department of Technology, Management, and Budget (DTMB)’s Data Warehouse in the development of UIA Benefit and Tax fraud detection analysis, and the results of that analysis would be integrated with MiDAS.”<sup>160</sup> Under the terms of the contract, SAS’s responsibilities included “requirements definition, functional design, configuration, testing, implementation, warranty, and maintenance.”<sup>161</sup>

SAS responded by claiming “that it was merely an independent contractor that provided software to the State.”<sup>162</sup> But the court found that the contract provided for more.<sup>163</sup> First, the court agreed with the plaintiffs’ allegation that SAS did more than provide the system; it “implemented and maintained” the system.<sup>164</sup> Second, the court found, based on the contract, that SAS was entwined with the state because it played “a non-negligible role in the automated system.”<sup>165</sup> For example, the contract required SAS to “schedule, coordinate, and perform all testing activities to validate that the product will operate in its intended environment,

---

155. *Id.* at 793.

156. *Id.*

157. *Id.*

158. *Id.*

159. *Id.* at 793–94.

160. *Id.* at 788.

161. *Id.*

162. *Id.* at 793–94.

163. *Id.* at 794.

164. *Id.*

165. *Id.*

satisfies all user requirements, and is supported with complete and accurate operating documentation.”<sup>166</sup> The court also highlighted the fact that “SAS was responsible for correcting defects discovered during testing and collaborating with the State to improve the system . . . [and] for providing EDFS performance tuning and defect repair.”<sup>167</sup> Thus, the court held that, if the allegations were correct, SAS could plausibly be considered a state actor and be held constitutionally liable for the harm that MiDAS and EDFS had inflicted on the plaintiffs.<sup>168</sup>

While the facts in *Cahoo* make a particularly persuasive case for state action, one could also see the same “entwinement” theory applying in the disability benefits and public employment case studies.<sup>169</sup> In both sets of cases, the government agencies worked hand in hand with private software contractors to design, implement, and—at least in theory—test the AI system that was directly responsible for the constitutional harms involved. On the other hand, as noted above, in the criminal risk assessment context, it is less clear that providers of risk assessments are as “entwined” as CSG and SAS were in Michigan.<sup>170</sup> More facts would need to be known about the level of engagement and involvement in the creation, implementation, and testing of the systems.

### III. WHEN AI SYSTEMS ARE MORE LIKE PRIVATE PRISON DOCTORS THAN NURSING HOME ADMINISTRATORS

Above we have outlined how, under each of the three theories of state action, courts *could* find private AI providers responsible for the constitutional harm they cause. In this section, we discuss if and when courts *should* do so.

#### A. *When the State Lacks Sufficient Accountability or Capacity to Provide Appropriate Remedies*

One instance in which the normative argument for constitutional accountability for private AI system vendors is the strongest is when state accountability is the weakest. For example, in the Arkansas disability

---

166. *Id.*

167. *Id.*

168. *Id.* The court did, however, dismiss the individual employees of SAS, FAST, and CSG from the suit as the plaintiffs could not show that any of them had specifically and personally been involved in the actions that caused the harm. *Id.* This raises interesting questions about the role of humans within software engineering. Perhaps the court felt that holding the companies liable was enough and did not want to inflict too much constitutional liability on individuals, but this is hard to distinguish from *West*, especially because some humans must have been involved in the design, implementation, and testing that the court found sufficient to potentially hold CSG and SAS liable as state actors.

169. See *supra* sections I.A.1–2.

170. See *supra* section I.A.3.

case,<sup>171</sup> the state relied on private contractors almost wholesale to design and implement the system that caused the constitutional harm.<sup>172</sup> While the plaintiffs were able to bring claims against the government to stop the ongoing deployment of the AI-driven program, the state agency lacked the capacity to address most of the specific causes of harm directly. The state had very little knowledge of how the AI software code had been written, where the mistakes were made, what data had been used to train and test it, or what means were required to mitigate the concerns raised in the case.<sup>173</sup> The same is true for the *Houston Federation of Teachers* case, in which not a single employee of the school district could explain, let alone remedy, the methods or outputs of the proprietary AI at the heart of the constitutional liability concerns.<sup>174</sup> This is strikingly similar in many ways to the prison doctors in *West*, to whom the state had “outsourced” its constitutional obligation to provide responsible healthcare.<sup>175</sup>

Of course, one could argue that this is often the case with government vendors and that holding the state accountable is often sufficient because the state can simply demand that the vendor provide the appropriate remedy or it can switch vendors. However, in *West*, we see that the Court was concerned not only with the specific harm to the single inmate in the case but also with the potential for the state to systematically avoid constitutional accountability by outsourcing potential liability to unaccountable private actors.<sup>176</sup> Holding private doctors personally liable ensures that they too have incentives to mitigate constitutional harms. Applying similar incentives to software vendors that sell AI systems to government agencies would accomplish similar goals. Moreover, while government actors can be assessed for damages when their AI systems violate individual rights, the primary remedy against state actors in such

---

171. Ark. Dep’t of Human Servs. v. Ledgerwood, 530 S.W.3d 336 (Ark. 2017).

172. See Lecher, supra note 7 (“The instrument used in Arkansas was designed by InterRAI, a nonprofit coalition of health researchers from around the world.”).

173. AR Choices: Update & Public Comment, Medicaid Saves Lives (July 25, 2018), <https://medicaidsaveslives.com/2018/07/25/ar-choices-update-public-comment/> [<https://perma.cc/PD92-W3U9>] (explaining that the RUGs algorithm has not been validated or verified in Arkansas); see also Letter from Kevin De Liban to Becky Murphy, supra note 55, at 4; Lecher, supra note 7.

174. See Hous. Fed’n of Teachers, Local 2415 v. Hous. Indep. Sch. Dist., 251 F. Supp. 3d 1168, 1177 (S.D. Tex. 2017) (explaining that the third-party vendor “treats these algorithms and software as trade secrets, refusing to divulge them to either [the Houston Independent School District] or the teachers themselves”).

175. See Manhattan Cmty. Access Corp. v. Halleck, 139 S. Ct. 1921, 1929 n.1 (2019) (“[A] private entity may, under certain circumstances, be deemed a state actor when the government has outsourced one of its constitutional obligations to a private entity.” (citing *West v. Atkins*, 487 U.S. 42, 56 (1988))).

176. See *West*, 487 U.S. at 55–58 (“Contracting out prison medical care does not relieve the State of its constitutional duty to provide adequate medical treatment to those in its custody.”).

contexts is injunctive relief.<sup>177</sup> Unless vendors are subject to the court's jurisdiction, the court cannot assert any real oversight or impose any specific injunctive relief on that party,<sup>178</sup> even if it is in the best position to fix errors in how the AI performed.

B. *When AI Providers Are Underregulated*

Another normative argument in favor of finding state action applies when AI vendors are underregulated. Currently, regulatory approaches to AI are under discussion, but almost no jurisdiction has enacted rigorous regulatory approaches to ensure accountability, especially for constitutional concerns.<sup>179</sup> When such private accountability gaps exist, state action remedies make more normative sense. Were these gaps to be filled to allow regulators or harmed plaintiffs to sue private actors separately under alternative laws, there would be less justification for designating AI vendors with state actor status. While this was never part of the explicit holdings in previous state action cases, one can see hints of this in several of the key decisions.<sup>180</sup>

Again, *Cahoo* provides an excellent example. There, in the same decision upholding federal civil rights claims against CSG and SAS as state actors, the court also simultaneously dismissed all state tort claims against them. The court concluded that under Michigan's product liability, negligence, and civil conspiracy laws, neither company could potentially be held liable for its actions.<sup>181</sup> Therefore, the only viable claims of relief were procedural due process, equal protection, and freedom from unreasonable seizure of property.<sup>182</sup>

C. *When Trade Secrecy or Third-Party Technical Information Is at the Heart of the Constitutional Liability Question*

A third situation in which normative values argue in favor of state action is where trade secrecy or third-party information is at the heart of the constitutional liability question. For example, in the *Houston Federation of Teachers* case, none of the school district employees could provide any answers to the core substantive questions concerning

---

177. See *Corr. Servs. Corp. v. Malesko*, 534 U.S. 61, 74 (2001) (“[I]njunctive relief has long been recognized as the proper means for preventing entities from acting unconstitutionally.”).

178. See *Jurisdiction*, Black's Law Dictionary (10th ed. 2018).

179. See *AI Now 2018 Report*, *supra* note 10, at 39–40.

180. But see *Metzger*, *supra* note 96, at 1425–26 (arguing that the weakness of the state action doctrine allows government actors to control private contractors without being limited by traditional constitutional constraints).

181. *Cahoo I*, 322 F. Supp. 3d 772, 809–13 (E.D. Mich. 2018), *aff'd in part and rev'd in part*, 912 F.3d 887 (6th Cir. 2019).

182. *Id.* at 813.

constitutional liability in the case.<sup>183</sup> Instead, all of those answers were within the technical and legal power of the vendor.<sup>184</sup> In such cases, considering the vendor a state actor would allow courts access to the necessary information to decide cases while also directly addressing vendor trade secrecy concerns. As parties, technology companies litigate their technologies every day in courts. Allowing those who have been constitutionally harmed to sue the vendors directly would allow plaintiffs and courts to access all relevant information about the AI system, its function, and the role of the vendor in the alleged constitutional violation. Vendors, of course, would have all rights to object or limit discovery under standard civil procedure provisions, including invocation of protective orders. Moreover, many courts have developed specific provisions to narrow and vet claims of trade secrecy.<sup>185</sup>

#### CONCLUSION

The state action doctrine should be considered as a potential pathway to providing greater accountability for the government use of AI systems. As Professor Gillian Metzger argues, “State action doctrine remains the primary tool courts use to ensure that private actors do not wield government power outside of constitutional constraints.”<sup>186</sup> As discussions of AI regulation move forward, the state action doctrine should form part of the landscape of the reasonable and appropriate regime that is ultimately devised. In particular, as AI systems rely more on deep learning, potentially becoming more autonomous and inscrutable, the accountability gap for constitutional violations threatens to become broader and deeper. This may result in both state and private human employees having less knowledge or direct involvement in the specific decisions that cause harm. For example, a new proposed rule from the U.S. Department of Housing and Urban Development creates a complete defense to a prima facie case of housing discrimination when the defendant uses an industry-standard algorithmic model to make its housing decisions.<sup>187</sup> This rule, if adopted, would encourage many actors in the housing industry to use AI systems, knowing that they could avoid liability

---

183. See *Hous. Fed’n of Teachers, Local 2415 v. Hous. Indep. Sch. Dist.*, 251 F. Supp. 3d 1168, 1177 (S.D. Tex. 2017).

184. See *id.*

185. See Cal. Civ. Proc. Code § 2019.210 (2019) (requiring trade-secrecy plaintiffs to identify the trade secret with reasonable particularity before allowing any discovery related to the trade secret to proceed).

186. Metzger, *supra* note 96, at 1410.

187. See Michelle Aronowitz & Olatunde Johnson, *The Trump Administration’s Assault on Fair Housing, Take Care* (Aug. 19, 2019), <https://takecareblog.com/blog/the-trump-administration-s-assault-on-fair-housing> [<https://perma.cc/23J7WVWW>]; see also Andrew D. Selbst, *A New HUD Rule Would Effectively Encourage Discrimination by Algorithm*, *Slate* (Aug. 19, 2019), <https://slate.com/technology/2019/08/hud-disparate-impact-discrimination-algorithm.html> [<https://perma.cc/X8NE-Q2Z6>].

by blaming the AI itself, even if there was overwhelming evidence that they knew the use of the system would have a disparate discriminatory impact.<sup>188</sup>

No doubt there will be many attempts, such as the proposed HUD rule, to allow AI systems to be used as accountability-avoidance mechanisms when companies cause constitutional violations. This is why the state action doctrine must remain a powerful and flexible common law approach for courts to use to redress this gap as it widens. This will be particularly necessary if legislation or agency regulation is slow to materialize or inadequate for the complex task that AI will present in the coming years.

---

188. Cf. *Logiodice v. Trs. of MCI*, 296 F.3d 22, 27 (1st Cir. 2002) (holding private entity MCI was not a state actor even though it ran part of the Maine public school system because the alleged constitutional violation—illegally disciplining a student—was carried out entirely and internally by MCI and had no joint participation elements). But see *Patrick v. Success Acad.*, 354 F. Supp. 3d 185, 209 n.24 (2018) (noting that private operators of charter schools are state actors, despite extensive internalization of decisionmaking).