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Reproductive justice is an intersectional feminist framework and movement which argues all people have the right to have a child, to not have a child, to parent in safe and healthy environments, and to own their bodies and control their futures. We identify increasing surveillance, assessing worth, datafication of bodies, monetising inequality and misinformation, and decimating planetary health as forms of structural violence associated with emerging digital technologies. These trends are implicated in the (re)production of inequities, creating barriers to the realisation of reproductive justice. We call for algorithmic reproductive justice, and highlight the potential for both acts of resistance and industry reform to advance that aim.

CCS Concepts: • Human-centered computing \rightarrow HCI theory, concepts and models; • Social and professional topics \rightarrow Computing profession.

Additional Key Words and Phrases: Artificial intelligence, AI, fairness, human rights, reproductive rights, reproductive justice, social justice, reproductive coercion, eugenics, algorithmic violence, structural violence

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1 INTRODUCTION

The proliferation of AI technologies as solutions to social problems has required that ethical constructs such as fairness be formally specified in the creation of system rules. Abebe et al. [2] noted this as one of computing's important roles in social change, that is as a 'formalizer': it opens up new opportunities to explore and challenge not just the systems themselves but the premises upon which they are built. This opening up has led to a flourishing technical literature on fairness metrics/implementations [97, 112, 115] and the ensuing critique of such metrics/implementations (e.g. [54, 144, 147]). Notably, there has been a thorough examination of the philosophical underpinnings of varied approaches to AI fairness [69, 97, 99, 103], with a growing concern for the dominance of fairness construed as (distinctly Western [15, 121]) distributive justice [2, 55, 61, 71, 126]. Approaches rooted in social justice [14, 15, 34, 37, 57, 66, 111, 131, 137] have been proposed to sensitise algorithmic fairness to structural inequity. Such work tends to overlap significantly with AI critiques situated within critical theories of race and gender [13, 15, 58, 82, 87] arguing that the operationalisation of such socially constructed categories erases information needed to understand the patterns of difference the AI is rendering as objective fact; and, relatedly, with the growing body of work adopting a feminist approach to AI ethics [38, 58, 71, 75, 87, 121, 126, 127, 135]. Emerging from these epistemological developments is a greater focus on intersectionality¹ in discourses of AI harm [109], a deeper examination of power dynamics within which AI is implicated [8, 106], and a call to engage more/meaningfully with marginalised people and their perspectives [79].

⁴³ ¹A term coined by Kimberlé Crenshaw [31] to capture the multiplicative effects of experiencing multiple forms of marginalisation. This approach centres
 the ways other forms of marginalisation intersect with gender to compound inequities, and seeks to empower marginalised people.

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This paper builds on and contributes to these efforts, while also attending to the comparative lack of theorisation 53 54 on the fairness of (non-AI) digital technologies and their infrastructuralisation of data-driven decision-making. We 55 build from work on how structural violence is being (re)produced in the digital sphere (e.g. [150]), and draw explicit 56 attention to the important (but generally overlooked) implications for reproductive justice (hereafter RJ). While there is 57 an emerging literature on the utilisation of digital technology as a tool for economic empowerment and activism in the 58 59 RJ movement (e.g. [62, 146]), there has been a dearth of attention to emerging technologies and the realisation of rights 60 outlined in the RJ framework (discussed in the following section); this invisibility of digital reproductive injustices in 61 the RJ community is matched by a neglect in the computing community of the ways emerging digital technologies 62 63 can and do (re)create reproductive injustices. There is an urgent need for dialogue between these communities. Our 64 aim here is to bring multiple, disparate bodies of research together to show how closely they are related, to highlight 65 how ubiquitous and consequential digital threats to RJ are, and to bring AI ethics and RJ thinkers and activists into 66 more direct conversation. We begin by briefly introducing RJ, followed by an illustrative exploration of how emerging 67 technologies impede RJ. We then discuss the value of adopting a RJ lens above and beyond a broader social justice lens, 68 69 and we briefly touch on what could be done to address these issues. 70

2 DIGITAL REPRODUCTIVE INJUSTICES

73 Conceived in the US in 1994 by Black women, the RJ movement arose in part to address the neglect of intersectional 74 feminist issues in the reproductive rights movement [90, 119, 120]. The reproductive rights movement, focused primarily 75 on access to contraception and abortion, failed to act in solidarity to address the broader range of reproductive coercion 76 faced by marginalised people. The RJ movement, by contrast, focused on this wider spectrum of coercion: Particularly 77 78 since the turn of the 20th century.² the underpinning eugenicist principles of reproductive health governance in the US 79 have sought simultaneously, and often forcibly, to increase the fertility of white, cisgendered, heterosexual, middle-class 80 women without disabilities while reducing the fertility of marginalised groups falling outside of this narrow population 81 [9, 116, 119, 120]. While this differential pattern of structural reproductive pressures on more privileged people (towards 82 83 fertility) and more marginalised people (against fertility) may appear to be two separate forms of reproductive coercion, 84 in fact they are linked-flipsides of the same eugenic coin.³ As a framework and a movement, RJ aims to unveil and 85 counteract reproductive inequities to create a world in which all people can realise their core rights as outlined in this 86 framework, viz.: the right to have a child, the right to not have a child, the right to parent children with dignity in safe 87 88 and healthy environments, and the right to own their bodies and control their futures [119, 128].

Repeated acts of structural violence have resulted in the systematic violation of RJ for marginalised people. The 90 most egregious examples include forced sterilisation, systematic abrogation of social protection, selective divestment 91 in institutions (e.g. schools, hospitals) serving marginalised people, child removals, mass incarceration, and barriers 92 93 to access to contraception and abortion. While a large literature on RJ focuses on the US given its geospatial and 94 historical roots, the movement was purposely grounded in an international human rights framework [119]. As founding 95 activist and scholar Loretta Ross [120] explains, the Black women who founded the movement learned from the human

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⁹⁷ ²Under slavery, the fertility of Black women was economically valuable to enslavers [73, 119]. The economic benefits of the rape and forced marriage of 98 Black women were structurally reinforced when, in 1662, Virginia overturned the practice of defining the status of a child as free versus enslaved based on 99 the father's status. Children's status thereafter followed that of their mothers. Enslavers using sexual violence to father children could then legally enslave 100 their children [119]. Once the fertility of Black women was no longer profitable for white men, the focus became repression of Black women's fertility. ³The same social valuations which determine whose fertility is valued also shape who is assigned dangerous or undesirable work. Where blanket 101 pronatalist mechanisms (e.g. abortion bans) are paired with selectively enforced systems of fertility restriction (e.g. forced sterilisation of marginalised 102

people, removal of marginalised children), the sum result is a eugenic fertility regime. Relegating some people to the most dangerous and/or undesirable socially necessary tasks goes hand in hand with assigning value in a social hierarchy (see [80] for more on the structural functions of marginalisation). 103

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rights claims advanced by women in Global Majority countries. Recent literature [45-47, 67, 89, 92, 134] reflects that reproductive oppression, marginalisation, and violation of the rights articulated by RJ activists and scholars are global phenomena. Below, we outline several ways emerging technologies are compounding social inequities globally, and we consider the implications of this for RJ. We consider not just the current state of development, but also the direction of travel for these technologies. This is not an exhaustive list of potential harms and implications for RJ, but rather an illustrative framing of some of the pressing but under-researched issues at the intersection of digital innovation and RJ.

2.1 Increasing surveillance

From scraping social media to facial recognition software to algorithmic monitoring, emerging digital technologies are being widely used to surveil populations around the world. The supposed benefits of increasing surveillance (e.g. public 118 119 safety, increased productivity) are used to justify the collection and analysis of big data underpinning these new forms 120 of surveillance. Yet a growing literature has highlighted the significant harms these technologies produce. We add to this literature by considering some of the ways digital technology is creating and perpetuating structural barriers to RJ.

One harm of digital surveillance is in monitoring and detention of immigrants and asylum seekers. In 2009 the UK 123 124 Border Agency's Human Provenance Pilot Project (now defunct) used DNA testing to make highly dubious claims 125 about the ancestry and origin of asylum seekers to assess whether asylum claims were legitimate [13]. Participation 126 was 'voluntary', but power dynamics between an asylum seeker and a government agency effectively made opting out 127 a non-option. In the US, Immigration and Customs Enforcement (ICE) has used external company Vigilant to sidestep 128 129 privacy regulations preventing collecting data from sensitive locations; purchasing information from Vigilant enables 130 ICE to act on information which is illegal for them to harvest directly [30]. ICE also offers highly profitable contracts to 131 companies that widen their systems of surveillance, including electronic ankle monitoring systems to surveil people 132 released from detention facilities who remain under state custody [13]. Being scrutinised at borders and detained within 133 134 them obstructs RJ. For example, Fleming et al. [48] show Latinx people in the US who experienced an immigration 135 raid may delay childbearing due to the financial and psychological impacts of detention, impeding their right to have 136 a child. Family separation and detention also clearly impedes the ability to raise children with dignity in safe and 137 healthy environments, as does hypervigilant monitoring of released detainees through ankle monitoring. For people 138 139 who can become pregnant who live in areas with limited/no abortion care legally available following the upending of 140 the Roe v. Wade in 2022, any form of monitoring technology creates a unique barrier to the right to not have a child 141 (importantly, incarcerated people who have been released subject to ankle monitoring also experience this barrier to 142 RJ). Nor is state surveillance the only digital surveillance threat to RJ. For instance, people in abusive partnerships have 143 144 reported abusers using apps for monitoring mobile phones [141] and cars [64] to surveil private communications and 145 whereabouts. RJ activism and scholarship has long highlighted multitudinous harms the monitoring and detention of 146 migrant populations causes (see e.g. [98]), and the structural inequities which ensure that these violations of human 147 rights are disproportionately inflicted upon (multiply) marginalised people (see [48, 119]). What a critical computing 148 149 perspective adds is how emerging technologies can increase the scope of monitoring, sidestep regulatory barriers, and 150 redefine the very ways that we understand heritage and borders in order to detain and exclude marginalised people. 151

Discourses on AI ethics have raised concerns regarding the use of emerging technologies to increase the 'objectivity' and efficiency of the criminal justice system in ways that disproportionately negatively impact marginalised peopleparticularly racially marginalised and migrant populations-through a combination of racially patterned predictive

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policing [124], misidentification (e.g. as 'criminals') by facial recognition [20, 65, 85],⁴ and the use of biased criminal risk 157 158 assessment algorithms for bail and sentencing determinations [13, 17, 39, 53, 59]. To our knowledge, however, these 159 discourses have not made explicit how these trends threaten RJ, particularly for (multiply) marginalised people, who 160 are more efficiently targeted and drawn into the carceral net [41]. 161

Incarceration has long been used to restrict the freedom and rights of Black people [5, 73]. As Dorothy Roberts [116] 162 163 has shown, this includes active measures to restrict reproductive freedom. Beginning in the 1980's, she explains, US 164 states criminalised reproduction by prosecuting illicit drug use while pregnant. These laws particularly targeted poor 165 Black women, largely through the legal system's selective focus on specific kinds of drugs.⁵ Black women's 'associations 166 with public hospitals, welfare agencies, and probation officers' meant 'their drug use is more likely to be detected 167 168 and reported. These women are already enmeshed in a social welfare structure that makes them vulnerable to state 169 monitoring of every aspect of their lives...' [116, p. 173]. Nor are efforts to criminalise reproduction unique to the US. 170 For example, in El Salvador, an especially restrictive abortion law has meant marginalised women have been prosecuted 171 and imprisoned for seeking abortion care, and also for obstetric emergencies [24]. Healthcare providers, treated as state 172 173 monitoring agents, are an essential source of data for law enforcement [152]. This surveillance and incarceration of 174 marginalised women has chilling implications in the context of data-driven technologies which pool information from 175 varied sources-frequently without the knowledge of the data's subjects. This is enabled by the expansion of carceral 176 177 technologies into new spheres of life [12], including digital monitoring of employees. There is disturbing potential for 178 such intimate monitoring (e.g. the number of bathroom breaks taken) to generate data that can feed algorithms that 179 predict pregnancy. Not only are data from these different sources being pooled, enabling different institutions to access 180 a wider array of personal information than they might otherwise have been able to, but they are also being used to make 181 judgments about highly value laden concepts, such as 'risk'6 [13, 17, 86], moving the needle of what surveillance can 182 183 accomplish from response to prediction. Predictions about criminalised behaviour such as drug use during pregnancy 184 and seeking abortion care can easily be used to apply racist, classist, and otherwise deeply problematic, structurally 185 violent assumptions to prevent marginalised people from accessing RJ-related services, and to quickly and efficiently 186 punish them for daring to make (often choiceless)⁷ choices about their own lives. 187

188 We also note the worrying use of criminal risk prediction algorithms on minors, as in Pasco County, Florida's 189 'intelligence-led policing' [132]. Structural inequities are hard-coded into these models through selection of model 190 features such as parental divorce, prior encounters with police, and mental distress, which are purportedly experienced 191 disproportionately by racially marginalised people and people facing socioeconomic pressures, effectively serving as 192 193 marginalisation markers. The predicted risk of 'criminality' also tends to be self-fulfilling: it catalyses heightened police 194 scrutiny of children with some low-level (likely spurious) signal of 'criminality', increasing the chances of evidence of 195 criminality being found. The 'at risk' child is ensnared in the carceral net, as are cohabitating family members, who face 196 a higher number of emotionally charged interactions with police-encounters which can be quite literally deadly. The 197 198 result is lengthy, and reproductively consequential, incarceration of individuals identified as in need of intervention to 199 'break the cycle' that leads to 'criminal' behaviour. 200

⁴There is growing resistance to these technologies in marginalised communities. For example, Newham Council in London recently voted to ban the use 201 of facial recognition for police surveillance on the grounds that it violated anti-discimination laws [129]. 202

⁵This is not a statement that Black women disproportionately use drugs; numerous studies have shown that notion is false (see e.g. [145]). Rather, 203 group disparities in type of drug being used have been systematically leveraged to target racially marginalised people. However, we also note that the 204 criminalisation of and moral posturing about illicit drug use is a marginalising act of structural violence regardless of who is using what, and when. ⁶We identify 'risk' as a value-laden logic that invites greater surveillance and penalties rather than protection.

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⁷Ross and Solinger [119] note popular rhetoric about reproduction assumes people are empowered agents, choosing from a 'marketplace' of reproductive 206 options to enact personal preferences. This assumption, they explain, does not align with the reality: People who experience structural barriers do not 207 have the same choices available, and often must make 'choiceless choices'-decisions based on severely structurally constrained options.

Incarceration limits one's ability to control their own body and future, and is a barrier to the rights to have a child 209 210 and to not have a child. It restricts one's sexual relationships (potentially for the duration of one's reproductive lifespan) 211 and ability to access adequate reproductive healthcare [60]. Coercive contraception and sterilisation programmes have 212 been used both to prevent women from having children once they leave prison and as part of plea deals of women 213 brought up on charges but not sentenced to prison time [60, 116]. Incarcerated people cannot raise children with dignity 214 215 in safe and healthy environments because they separated from their children and, in many cases, children are placed 216 into the social (foster) care system, or even incarcerated themselves. And, for people released from prison, stigma and 217 discrimination can strongly impact their ability to access basic needs such as housing and employment, which further 218 structurally impairs their ability to provide a safe and healthy environment [60]. 219

2.2 Assessing worth

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The highly subjective, value-laden notion of 'worthiness' has long been deployed to ameliorate moral qualms about the stratified distribution of valued resources; the very notion of 'worthiness' is a tool of structural violence. Sometimes this is obvious, such as in the language of 'creditworthiness', and sometimes it is slightly more subtle, buried in narratives around 'deservingness' [80], such as when states decide who should (and who should not) be eligible for social protection schemes [26]. Emerging digital technology is increasingly being used to assess worth [25, 36, 78] and, linked to this, to shape the distribution of resources, with implications for the realisation of RJ.

230 Digital technology is being used in the context of migration to assess worth. The aforementioned Human Provenance 231 Pilot Project, for example, pushed asylum seekers to subject themselves to genetic surveillance, but it also sought to label 232 them as 'worthy' or 'unworthy' of legal migrant status based on faulty assumptions about ancestry. Digital technology 233 is also implicated at the US border, where the Customs and Border Protection mobile application (CBP One) serves the 234 235 manifest function of scheduling application appointments to enter the country for migrants waiting in Mexico [32]. A 236 latent function is to effectively create a digital border around the US by using digital technology to restrict access to 237 appointments and screen out individuals assumed to be lacking the basic technological and linguistic proficiency to 238 contribute to the 'productive' economy. Among other concerns, CBP One has been widely criticised for supporting 239 240 limited languages and requiring a phone and a wifi connection to use [118]. Fluency in preferred languages, ownership 241 of a suitable phone for running the app, relevant technological skills, and access to wifi are all markers of privilege/social 242 status. These factors represent a relative, context-specific privilege, but one used as a marker of worthiness for who 243 gets a chance not even at citizenship, but simply at the appointment lottery. This situation is a matter of RJ because it 244 245 has left large groups of people living liminal and precarious lives on the border, unable to provide a safe and healthy 246 environment for their families, with limited control over their futures, and with limited access to healthcare. 247

AI's deployment has been critiqued for reinforcing racist, sexist, classist, and otherwise structurally violent forms of 248 employment discrimination in screening job applicants [13, 30, 93]. We argue that these new forms of employment 249 250 discrimination-forms which are hidden from view, enforcing patterns of discrimination at scale yet claiming to resolve 251 human bias in hiring [114, 122]-have implications for RJ. In an economy that ties the capacity to access basic necessities 252 such as food and housing to participation in waged labour, the inability to access employment due to (algorithmically 253 compounded) discrimination makes it difficult to provide for a child's needs [26, 46]. This is a threat to the right to 254 255 parent with dignity and the right to have a child; decisions about, if and when to reproduce can be strongly influenced 256 by financial precarity. Because the discrimination embedded in AI employment screening follows the well-worn lines 257 of discrimination seen prior to the use of AI, (multiply) marginalised people are particularly subject to this form of 258 bureaucratic violence. And, linking to the structural violence associated with increasing AI surveillance, AI systems 259

may be especially efficient at discriminating against people who have experienced the violence of the widening carceral net, further compounding the reproductive injustices associated with mass incarceration.

263 AI is also being deployed in many US states to make decisions about child welfare and removals [19, 41, 72, 123]. A 2018 264 national child welfare system reform bill expanded data collection in the system, in part with the aim of constructing 265 predictive tools to address systemic problems [35]. Instead, the deployment of AI in this context simultaneously 266 267 reproduces (and amplifies) biases in the existing decision-making procedures, while also alleviating the moral burden of 268 child welfare decision-making. In a simulation study, Du et al. [35] show (hypothetical) implementation of an automated 269 risk assessment tool increases both racial inequities in long-term care and the total number of young people in foster 270 271 care, directly contradicting reform goals. Utilising AI in child welfare decision-making is also linked to increasing 272 surveillance, as (multiply) marginalised parents are those most likely to be under digital surveillance and to have 273 their children removed from them [41]. The sterilised language of algorithmic risk assessment belies the underlying 274 judgement about the worthiness of parents that underpins the decision to remove a child from their natal home (see 275 for example [50]). The way children's 'vulnerability' and the 'risks' associated with different home environments and 276 277 parental characteristics are defined are inherently moral judgements developed within the sociocultural value system 278 of a specific, self-preserving social hierarchy; contrary to intentionally reassuring messaging about AI, shifting from a 279 human decision-maker to an algorithm does not suddenly render these judgements neutral. And, where algorithms 280 define risks as 'ever being involved in the criminal legal system' or 'receiving social welfare'-as in the infamous 281 282 Allegheny Family Screening Tool [41, 50]—some families are 'marked in perpetuity' as 'risky' [50], i.e. as perpetually 283 unworthy of parenthood. Technological decision-making processes in social work assessments can remove social 284 workers' capacity to engage with contextual considerations and operate professional judgement [18]. Even if we accept 285 the (false) premise of 'objectivity' of AI risk assessment, it is still problematic to assume that rigid systems of algorithmic 286 287 categorisation and mandated action will reduce harm in a system where human traits such as empathy (inherently 288 lacking in AI [36]) are essential for identifying and dismantling harmful practices and structures. While not all human 289 decision-makers are motivated to effect positive change and keep families together, there is a greater likelihood of 290 human decision-makers with this motivation than of AI built to optimise in this way. The system of child removals has 291 292 been constructed on racist, colonialist, classist, ableist, and otherwise inherently discriminatory assumptions (for more, 293 see [102, 116, 119]). The underpinning assumption of AI risk assessment in this context is that some people are unworthy 294 of parenthood. In strong contrast, RJ asserts that all people are worthy of parenthood, but some people-particularly 295 (multiply) marginalised people-face myriad structural barriers that can prevent them from having children and from 296 297 parenting those children in safe and healthy environments. Parents cannot raise their children in safe and healthy 298 environments when their children are taken from them, and the deployment of automated decision-making compounds 299 rather than negates this problem. 300

AI is also being used is to assess financial worthiness. Financial worthiness is often treated as a moral judgement, with 301 302 credit scores being used as a particularly quick, easy, and ostensibly objective indicator of someone's worthiness and 303 character [78]. Credit scoring algorithms are significantly less accurate for individuals with limited credit histories (or 304 'thin data') [16], a situation more common for (multiply) marginalised people; so, too, are such individuals' scores more 305 susceptible to the impacts of any single negative datapoint [16]. People experiencing financial precarity, often reflecting 306 307 complex histories of marginalisation, are less resourced for buffering the instabilities this precarity creates (e.g. ill 308 health, job inflexibility, lack of access to child care and transportation), thus increasing the likelihood of credit-reducing 309 incidents on their record. Additionally, 'fringe alternative data' [136] from people's online behaviours, used for online 310 consumer-credit marketing, creates a trove of intimate data that can be sold to companies to optimise their predictions. 311

As these operate outside of financial regulations on non-discrimination, highly problematic proxies are frequently used 313 314 to profile people in ways tantamount to 'digital redlining' [136] (see also [104]), leading to concrete-but frequently 315 unrecognised-harms such as psychological distress and loss of autonomy [150]. Cruelly, advertising algorithms use 316 these detailed profiles to microtarget the poor [106, 136] with payday lending, subprime mortgages, and other forms of 317 predation, then seize upon their algorithmically optimised 'failure' to wipe out their wealth (Cathy O'Neil and Safiya 318 319 Umoja Nobel in [65]). These structural pressures mean people's scores follow them from one automated decision system 320 after the other, reducing life opportunities on the basis of 'objectively' determined moral 'inferiority' [78]. Perversely, 321 difficult-to-repay debt, which further harms credit, can become the only option for survival-a choiceless financial 322 choice. Drawing on interviews in Argentina and Brazil, Cavallero and Gago [21, p. 44] explain 'Debt only comes in to 323 324 "save us" because we have been violently impoverished, to the point of an induced precarity. Debt becomes unpayable 325 because first there was looting and dispossession.' Creditors actively target marginalised people for whom debt has 326 become necessary for survival. Identifying financially 'unworthy' people creates a market of consumers for a product 327 which is has no value except to reinforce the label, creating a feedback loop of demand. For someone whose financial 328 329 options have been restricted by harmful 'worthiness' labels, the 'right' time to have a child may never arrive, creating a 330 barrier to the right to have a child. The costs of reproductive healthcare (and, even where this is free at the point of 331 care, care-seeking trajectory costs such as transport, child care, and missed work (see [27, 46])) are a significant barrier 332 to the right to not have a child. And, it is difficult to control one's future and provide a safe and healthy environment 333 334 when 'creditworthiness' and linked spirals of predatory debt render meeting basic needs impossible. 335

The use of AI to assess financial worthiness can have a particularly chilling effect for people with abusive partners. 336 Leaving an abusive partner can be nearly impossible for people experiencing financial precarity and debt (see for 337 example [21]). While this is not unique to the digital era, AI facilitates information sharing between institutions over a 338 339 long duration in a way that can be unknown to individuals whose financial records are being impacted and, related to 340 this, can be shared and applied without the benefit of context. For example, a woman in London defaulted on payments 341 for a student overdraft in 2016 because her abusive partner exerted control over her finances, leaving her with no 342 money and severely restricted knowledge of outstanding bills [56]. After she left her partner, he received her statutory 343 344 maternity pay, creating further financial problems for her. As she established a life away from him, she became aware 345 of the payment she owed and took immediate action, fully settling the debt within three years. However, this left a 346 mark against her credit report which she could not have removed (despite her circumstances), leaving her unable to 347 purchase a home and provide for her son as she wished. AI was used to assess her worth in a way that ignored the 348 349 structural violence informing her circumstances, with lasting consequences for her right to parent with dignity in a 350 safe and healthy environment. While credit scores pre-dated algorithms, AI has made it easier than ever for different 351 systems to share information; creditworthiness has increasingly become an all-encompassing, inescapable metric for 352 general 'worthiness'. 353

354 Another example comes from China's social credit system, which tracks activities such as time use and purchasing 355 history and gives a citizen score ranking that can determine people's access to social resources, including housing and 356 transportation [13]. Given the importance of social and financial resources for being able to raise a child in a safe and 357 healthy environment, a system designed to restrict access to e.g. housing through automated behaviour monitoring is a 358 359 threat to RJ. Systematically excluding people from basic necessities is also a structurally violent act of reproductive 360 coercion which can lead people to defer childbearing, possibly indefinitely. And, a long global history of reproductive 361 coercion against marginalised people, up to and including forced sterilisation, highlights the very dark potential for 362

such a system to be used to impede the right to have a child by providing technological cover for enforcing harmful 365 366 notions of who 'should' reproduce. 367

The very act of assessing worthiness is a form of structural violence which systematically restricts some people's 368 access to basic goods. It is nonsensical to claim that enforcing a social hierarchy in this way is an objective act free 369 from human bias. Nonetheless, this is the widely-touted claim for why AI is better suited for assessing worthiness in a 370 371 wide variety of systems. Decisions involved in compiling and coding data that are necessary for creating algorithms in 372 the first place are strongly influenced by the human biases of those developing and deploying the systems (e.g. their 373 beliefs regarding the relative trustworthiness of certain groups of people [78]). AI is being used to make assessments 374 375 about worthiness in a variety of contexts that have far-reaching implications for the realisation of RJ.

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2.3 Datafication of bodies

While the collection and analysis of data is certainly nothing new (indeed, datafication has been used historically, for 379 example, to racialise people to legitimise the eugenics movement [140]), digital datafication has emerged from the 380 381 capacity to rapidly collect, store, and analyse a previously unthinkable volume of data through technological advances 382 [94]. The very notion of what counts as data has expanded as technology has evolved to capture an ever growing range 383 of activities in our lives. It is 'the process of translating the flux of life into discrete machine-readable data points' [63]. 384 At the same time, personal control over whether or how one's own data are collected and analysed is often very limited 385 386 [25, 34], and important context and nuance is lost through the process of abstraction necessary to collect and analyse 387 data at this scale. Increasingly, data are being marketised to facilitate surveillance capitalism, with serious consequences 388 for life chances [29, 150, 151], particularly for marginalised people. While datafication and its nefarious manifestations 389 are nothing new [140], emerging digital technology has dramatically increased the pace and scale of this process. 390

391 A range of apps that rely on AI to process and analyse data have emerged with the manifest aim of helping people 392 improve their health. However, their latent function is datafication. Users enter personal details alongside a stream of 393 information specific to the app's aim, directly contributing to their own datafication. Period trackers are one example, 394 offering users the ability to track their menstrual cycles to increase their knowledge of their bodies, plan for menstruation, 395 396 and even monitor ovulation, with implications for (not) becoming pregnant. Reproductive health experts have raised 397 serious scientific concerns about the data underlying some AI-based fertility trackers (for example [113]), raising 398 questions about efficacy and safety for conception and pregnancy prevention. Where abortion is criminalised, these 399 data can be used to predict potential pregnancies, placing app users in danger if the data (and particularly predictions 400 401 based on the data) are shared with law enforcement. Following the overturn of Roe v. Wade in the US, experts have 402 warned that apps are not subject to the same data privacy laws as medical providers [10], highlighting a threat to the 403 right to not have a child that this form of datafication can pose. Women who seek criminalised abortion care may be at 404 risk of incarceration (and associated barriers to RJ, as in §2.1). There is also a serious risk that women who seek care for 405 406 obstetric emergencies could experience accusations of foetal harm [116], possibly up to and including formal charges 407 conflating miscarriage and abortion as seen elsewhere in the world [88]. In short, this form of datafication incentivises 408 and creates efficient pathways for people to share private data, simultaneously placing themselves at risk of greater 409 surveillance while also generating profit for companies that use data as capital. 410

411 Extractive AI tools are fueling opportunities across Global Majority countries, from gig economies to prenatal care, 412 for populations previously excluded from technological benefits. One crucial consideration is the implications for RJ in 413 an ostensible zero sum scenario where people are either excluded from AI benefits (like AI assisted prenatal care) or 414 left to the mercies of AI's rampant, uninhibited data gathering potential. In a context where digital technology can 415 416

serve as bridging capital, including benefits like greater RJ in prenatal care, how can cautions about ethical concerns 417 418 enhance access to equitable outcomes instead of (re)creating inequity? Scholarship [4, 42] adducing the entrenched role 419 of colonialism nuances these concerns. According to decolonial logics [130], a key starting point for understanding 420 conflicts between the benefits and burdens of AI is the role of deep-rooted inequality [91]. Lutz's [91] characterisation of 421 tensions between exclusion and inclusion emphasises AI as a resource with the potential to bridge existing capital gaps. 422 423 However, AI exposes how entrenched inequalities reproduce themselves if particular attention is not given to ensure 424 transparency and accountability. Decolonial logics show inequality is historically defined, and AI merely exemplifies a 425 novel way to understand the profile of the usual beneficiaries and the typically neglected (see for example [1]). Prenatal 426 care presents a useful example of this argument, especially in the context of algorithmic RJ: technologies for prenatal 427 428 care can reach far and wide because they overcome some longstanding structural concerns-for instance ensuring 429 inclusivity for rural dwellers who typically face isolation from material structures and urban dwellers for whom costs 430 of medicines and care are pose barriers. Often the minoritised people for whom such modes of care is presented as 431 inclusive are also those who earn their living through the gig economy, again with AI enabling more access to markets 432 433 that can be classed as inclusive [142]. However, the scholarship adducing inequality in the distribution of benefits and 434 burdens demands consideration of the unique ways digital benefits can also be burdens [142], pinpointing overt costs 435 of membership for those technologies offering greater equality and the more covert cost of datafication [29]. When 436 the benefits of using AI to, for example, improve birth outcomes are weighed against the harms of datafication, the 437 438 implications for the realisation of RJ are complex.

439 As Ruja Benjamin notes [13], AI datafication is being used to compile and analyse genetic data, with the aim of 440 providing a genetic blueprint for intelligence and other socially valued traits for AI-assisted reproductive decision-441 making. She cites the documentary DNA Dreams, a film about how scientists in China are working to identify alleged 442 443 'intelligence' alleles. Benjamin explains the scientific team rebutted criticism that this is a eugenic agenda, arguing that 444 rather than selectively promoting the fertility of 'highly intelligent' people and discouraging the fertility of others, 445 the team's goal is simply to enable everyone to have the 'best kids' possible. Benjamin labels this 'Equal Opportunity 446 Eugenics', explaining the very notion of 'best kids' and indeed of 'intelligence' itself are socially defined, highly subjective 447 448 ideas; the choices scientists are making to define intelligence and correlate this with genetic markers is, contrary to the 449 scientific team's rhetoric, neither a neutral nor an inclusive act. Ultimately, whether selectively encouraging fertility on 450 the basis of a value-laden characteristic or encouraging everyone to make fertility decisions to maximise a specific 451 characteristic, the result is still eugenics. The datafication of intelligence (and other subjective, selectively valued 452 453 traits) and efforts to select on these traits are rooted in 'a belief that more humans can be like those already deemed 454 superior' [13, p. 117]. The history of eugenics highlights how socially defined and deeply biased ideas about which 455 traits are/should be valued, packaged as objective scientific insight, can be a powerful tool of structural violence used to 456 restrict the right to have a child, to not have a child, and to control one's own body and future. 457

2.4 Monetising inequality and misinformation

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As with the other trends we have highlighted, monetising inequality and misinformation is not new. However, AI is facilitating the spread of misinformation in ways that make it more rapid, voluminous, and targeted, while simultaneously increasing the potential for financial gain from spreading misinformation and stoking inequalities [104].

Inequities in access to assisted reproductive technology (ART) have long been a barrier to the right to have a child, with the most marginalised people both within and across national boundaries having the least access [7, 9, 44, 51, 138]. AI is now being developed in the selection and analysis of sperm cells and oocytes, the evaluation of embryo quality for

decisions about transfer and implantation, and predictions of the probability of success for in vitro fertilisation (IVF) 469 470 [117]. As Rolfes et al. explain, the application of AI in this context has introduced a strong potential for compounding 471 disparities by charging a premium for AI-assisted ART, which could provide more effective ART treatments and more 472 successful outcomes with less need for repeated invasive procedures. This is likely to be particularly the case when 473 AI-assisted ART is not widely available, potentially leading to a widening of the care gap between privileged and 474 475 marginalised people who experience infertility and even raising costs across the sector, creating further barriers to the 476 right to have a child for marginalised people. 477

We have already touched upon one of the mechanisms by which search algorithms monetise inequality, namely 478 479 through targeted advertising that bets on people's failure (§2.2). To this we add the following: An analysis from February 480 2023 has shown that nearly half of adverts returned by Google UK when users were searching for abortion-related 481 phrases such as 'NHS abortion advice' (National Health Service) were advertisements for anti-abortion groups [33]. 482 For users who see the search platform as a tool for efficiently navigating the Internet (rather than as a business that 483 makes its money from advertising revenue), the relevance and accuracy of results returned and the relationship of these 484 485 characteristics to the potential for revenue generation may be extremely opaque.⁸ 486

2.5 Decimating planetary health

489 Since the term was coined in 2013, a growing body of work has focused on planetary health-that is, how human activity 490 has impacted complex and interconnected ecological systems, and how the devastating effects of natural resource 491 depletion and the climate crisis in turn threaten human health around the globe [149]. While popular excitement 492 493 over possible technosolutions to the climate crisis abound, significantly less attention is given to the planetary harms 494 inherent in the profligacy and extractive ethos of emerging digital technologies. Linked to these planetary costs are 495 very real human costs, both in terms of harms to the people who depend on effected ecosystems and harms to the 496 people who are doing the dangerous extractive labour. 497

498 For example, minerals such as lithium, dysprosium, and cobalt are essential for manufacturing processor chips, 499 computer displays, batteries, and other technology components [30, 40]. Both the physical activity of mining itself 500 and the environmental degradation linked to it carry serious health consequences for miners and for communities 501 surrounding mines-disproportionately for marginalised people and communities in Global Majority countries. The 502 503 high demand for minerals underpinning the industry, and the structural violence linked to the extraction of these 504 resources, is a threat to RJ. Where child labour is used, mining is a direct threat to the ability to raise children in safe 505 and healthy environments; mining poses both short-and long-term threats to children's health [107].⁹ The pollution 506 from nearby mining activities can also create health hazards such as mercury and lead contamination, which negatively 507 508 impacts human health and child development [52, 110]. And, the ill health of parents who work in mines can also pose 509 a risk to children, e.g. by reducing household income when wage earners become ill and through health risks such as 510 transmission of tuberculosis, which is a common health problem in mining communities [108]. Because mining also 511 carries a high risk of death, people who are undertaking this dangerous form of labour experience a risk to all of their 512

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 ⁵¹⁵ ⁸This is despite Google's protestations that this is not an issue because the word 'Ad' appears in bold before the links in question; links to valid, regulated
 ⁵¹⁶ abortion providers were also labelled as adverts [33]; simply labelling an advert as such is not a sufficient cue as to the validity of the linked information.
 ⁵¹⁷ ⁹Although risks of injury and toxic exposures are very real in extractive industries, children can, as empowered actors, choose to work to contribute
 ⁵¹⁸ to their household economy. Simply withdrawing an important source of income without attending to broader structural constraints and investing in
 ⁵¹⁹ many circumstances a choiceless choice, and removing (rather than broadening) already constrained choices is an inadequate solution.

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rights under the RJ framework. Moreover, where demand for natural resources increases conflict, communities face an increased risk of food and water insecurity, displacement, injury, and death, all of which are barriers to RJ [43, 46].

More broadly, despite the key role of digitalisation in (inter-)governmental climate strategy (e.g. [28]), at present digital technologies pose a material threat to the realisation of climate targets [76]. While often mistaken as directly reducing carbon emissions, the efficiencies emerging digital technologies deliver instead promote the desire to do more (for cheaper), creating rebound effects that offset efficiency gains; meanwhile, the impulse to find new ways to capitalise on datafication further drives the growth of emissions by data centres that store these limitless troves, and by the computational intensity of AI processing this data [49, 81]. In short, the AI industry is a massive contributor to the climate crisis and its sequelae. Because of the inextricable links between climate justice and RJ, the substantial and direct role digital technologies play in compounding the climate crisis is a pressing matter for RJ. Put simply, no one can live in a safe and healthy environment, no one can have the children that they want to have, and no one can have control over their future on a planet that cannot sustain life.

3 DISCUSSION

3.1 Why Reproductive Justice?

The issues outlined above have been raised by scholars applying a social justice lens to critique AI. So what is gained by exploring these issues through a RJ lens? First, this lens lifts the veil on additional dimensions of systemic harms. In 2004, cardiologist Nanette Wenger critiqued medical science for taking a 'bikini approach' [148]-a narrow focus of women's health as being about breasts and reproductive systems, neglecting the rest of the body. By framing the reproductive harms of emerging digital technology as stemming mainly (or solely) from technologies focusing on women's reproductive systems (e.g. menstrual trackers), computing risks a similarly problematic approach. RJ offers a useful lens for seeing the reproductive coercion embedded in a broader, more subtle range of emerging technologies. Applying the explicitly intersectional feminist lens of RJ reveals the potential, and already realised, forms of reproductive coercion being fostered by digital technologies. Explicit attention to algorithmic RJ is essential for achieving 'strong intersectional fairness in AI' [83]. Our paper seeks to be a bridge for bringing AI ethics and RJ activists and scholars into conversation; visiting the intersection of these two fields highlights how digital technologies are putting a thumb on the RJ scale-a form of digital gatekeeping that enforces broader sociocultural notions of who can and 'should' reproduce. The specific harms of RJ are linked to but not subsumed by broader forces of marginalisation, yet people with a particular stake in RJ are not brought into discussions about fairness, accountability, and transparency. RJ principles align well with an Ubuntu-inspired relational ethics model which extends beyond principles of fairness and trust, requiring AI ethics to contend with community good, respect for others, and safeguarding humanity as well [6]. Examining emerging social justice issues in AI and related digital technologies through the RJ lens will help to give the reproductive implications of these technologies the attention that they deserve. Second, and relatedly, being rooted in international human rights, a RJ framing may afford strategic advantage in terms of global solidarity. It grounds discussions of AI harm within international fora such as the United Nations, which is in the early stages of grappling with the threat AI poses to human rights and what unified international action against these threats might look like. Critiquing digital technology through RJ opens the door to cooperation with groups fighting for RJ around the globe.

Third, this lens clarifies AI's disturbing potential for alignment with eugenics. Extant critiques have identified similarities between AI classifications and the physiognomy/phrenology historically used to legimitise eugenics [30, 58], but we suggest the connection to eugenics is also more direct. Dan McQuillan is perhaps most bold in calling out the

eugenic tendencies of AI. He warns [96] AI is entangled with a) problematic notions of intelligence that have always 573 574 legitimised racialised social hierarchies, and b) the instinct to optimise intelligence, which led to overt eugenics; but he 575 also argues AI is deployed in ways that grant/deny opportunities to individuals in ways that racially stratify mortality. 576 As we have noted, premature deaths related to deployment of AI technologies have implications for people's freedom 577 to reproduce. But whereas McQuillan writes, 'It wouldn't be necessary for AI-driven eugenics to be implemented by 578 579 anything as crude as forced sterilization: it could simply operate as infrastructural filtering at scale' [96, p.92], we assert 580 eugenic pressures exerted by emerging technologies go beyond filtering of opportunity (distributive injustice). 581

Fourth, our discussion of implications for RJ has revealed the interconnected nature of digital reproductive harm, 582 583 with multiple violent processes converging on the most marginalised people around the globe. For example, as Cavallero 584 and Gago [21] point out, the debt crisis that is disproportionately affecting families and marginalised people in 585 Argentina and Brazil is rooted in transnational processes of structural adjustment: Global Majority countries that have 586 experienced centuries of colonial extraction to generate capital for Global Minority countries are now experiencing 587 another wave of extraction in which social protection systems are being dismantled to pay for state debt. This is an act 588 589 of neocolonialism, with structural adjustment effectively asking countries to foot the bill for their own exploitation. 590 Families and marginalised people being forced into debt and precarity to line the pockets of financiers in Global Minority 591 countries. Thus seemingly local experiences of debt and its sequelae are rooted in global processes of extraction. We add 592 to their incisive analysis that the opaque introduction of AI and its quiet ubiquity can supercharge harmful processes, 593 594 including the structural violence of debt, by providing a veneer of objectivity while breaking down boundaries between 595 systems of oppression. 596

Finally, because RJ draws attention to how history animates current inequities, algorithmic RJ elucidates the role of 597 (neo)colonialism in creating the infrastructure for our deeply inequitable digital world. Digital technologies did not 598 599 spring forth from nowhere; a tendency to look towards exciting new directions without considering historical context 600 can mask the underpinning analog inequities on which the foundations of our digital world are built. Indeed, the Silicon 601 Valley motto of 'move fast and break things' misses the myriad ways things are, in fact, already broken. Consideration 602 of the historical context of technological advances at a global scale highlights how historical harms are replicated by this 603 604 ethos. RJ invites us to consider the historical roots of inequities, how inequities are maintained in the current system, 605 and how they can be best redressed. For instance, we noted the duality between AI's potential for bridging capital, with 606 the potential to combat socioeconomic inequity globally, and the probabilities for merely reproducing said inequities 607 [96]. Indeed, this view of AI as actual (rather than mere abstract) technologies offering real-life capital for populations 608 609 historically marginalised and systematically excluded from the benefits of emerging technology globally allows insight 610 through the concrete lens of RJ. We are particularly concerned about algorithmic harm landing disproportionately in 611 parts of the world where digital technology represents significant bridging capital, and therefore the choice to push 612 back against technology's more insidious effects can ultimately be a choiceless choice between the very real harms 613 614 of using versus not using a given technology. What can be regarded as an 'uncritical' welcome of these technologies 615 can also be understood in regards to how historically structured inequitable arrangements, including access to digital 616 technologies, distorts rather than actualises agency. Concerns with uncritical acceptance cannot be divorced from 617 the representation of AI as a social good [143]. This insight adds renewed urgency to calls to develop AI ethics that 618 619 transcends a narrow, privileged, colonialist perspective [125, 139]. There is a clear need for research that expands our 620 (currently woefully inadequate) understanding of lived experiences of digitally-implicated harm and the barriers they 621 pose to reproductive (and other forms of) justice; RJ provides a toolkit for informing this research, and links discussions 622 about digital inequities to an activist community with extensive expertise in addressing inequities. 623

625 3.2 Doing better

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We have raised significant concerns regarding the application of AI in domains including criminal justice, social 627 care, and AI-assisted reproductive decision-making. That said, our critique is not so much of particular emergent/AI 628 system(s) as it is of the extractive ethos driving various interlinked technologies [29] which, in combination, obstruct 629 630 RJ. Meaningfully controlling one's future requires meaningful control of one's data, including real opportunities to 631 reject data-driven systems. Consent regimes are demonstrably inadequate protections for almost everyone [68, 77], 632 but (multiply) marginalised people have even less power to exert choice under heightened surveillance, and often face 633 634 strong incentives to demonstrate compliance with agencies demanding their data [41]. Moreover, the consequences of 635 the failures of consent regimes is far from evenly distributed across society. Our analysis underscores the importance of 636 real solutions to the perennial challenge of privacy in the age of surveillance capitalism [150, 151]-solutions which are 637 anticipatory (see [23] for more) rather than exclusively, and glacially, reactive. Echoing Ruha Benjamin, we propose 638 that solutions in this space focus on the power dynamics of visibility, i.e. empowering people to make the choice of 639 640 when and to whom to be visible-a stark contrast to the way digital technologies currently make marginalised people 641 visible when they want to avoid the gaze and invisible when they want to be seen [13, p. 68]. Focusing on the two sides 642 of this visibility problem should help curtail structurally violent surveillance, consumer profiling, and datafication while 643 also revealing people's real experiences of all forms of injustice. 644

645 Relatedly, our analysis emphasises meaningfully engaging with marginalised people throughout the entire design 646 pipeline. A growing literature emphasises the importance of methodologies that support genuine dialogue [74, 96], 647 actually listening to marginalised voices [13, 34, 58, 80, 84, 95]. However, involving marginalised people does not 648 necessarily constitute meaningful engagement unless their participation is both genuinely valued and on their own 649 650 terms; there is important work to be done in co-design of the engagement methodologies themselves [79] to avoid 651 repeating patterns of harmful extractivism within participatory approaches to AI ethics (see [70]). Concern with 652 epistemic inclusivity is identified in decolonial scholarship as indicative of both Eurocentric and androcentric control 653 of knowledge development, rationalising the marginalisation of colonised communities from power [4]. Fannon [42], 654 655 for instance, draws a parallel between the ability to control one's narrative and access to resources key to one's 656 transformation. Epistemic colonialism applies not only to methodologies, but also to the Eurocentric and individualistic 657 ethical principles used in AI decision-making [6]. Scholars assess such concerns from a decolonial perspective, citing 658 659 the need for greater epistemic inclusion [3, 29, 100]. Cave's [22] exploration of AI as constitutive of a value laden history 660 draws attention to the role of knowledge development processes in how inequity is reproduced. This includes historic 661 shaping of 'scientific' knowledge like eugenics as legitimate; Cave exhorts the need to resist AI's capacity to reproduce 662 and rationalise such harms with critical analyses adducing ethics. Couldry and Mejias [29] meanwhile, in defining data 663 colonialism as 'the predatory extractive practices of historical colonialism with the abstract quantification methods of 664 665 computing' also encourage epistemic equality. This is likely to ensure that the way technologies are conceptualised 666 include the voices and values systems of those historically marginalised from knowledge development and resources. 667

Finally, given the wide-ranging corrosive effects of data profiteering, realising RJ will require a radical culture change in our relationship with data. The continuously growing carbon footprint of the world's data-driven systems threatens all of our rights. This demands computing respond proportionally to the existential threat of the climate crisis [81]. Efforts to incorporate renewable energy, offset emissions, and increase efficiency are not enough; we must also seriously constrain consumption. This means limiting data collection, even deleting existing data, and resisting the temptation to throw computing—particularly AI—at every problem. The climate impacts of AI have been underappreciated within

AI ethics policy and research, with little to no attention to this matter at preeminent conferences in the field (notable
 exception: [11]), and this urgently needs to change.

We have outlined some of the (potential) barriers to the realisation of rights that emerging technology presents. It is 680 also essential to recognise the potential for technologies to be reshaped, co-opted, and reimagined as tools for liberation. 681 For example, when asked about predictive models in child welfare systems, stakeholders (e.g. care leavers, parents) 682 683 identified the potential for digital technologies to be used in solidarity with families to prevent child removals and 684 counteract child welfare agencies [133]. We caution against viewing people who are marginalised by technology as 685 passive and powerless. Waiting for industry and regulators to resolve the structural violence embedded in emerging 686 687 technology promises to be too little, too late. History has shown that social progress is often driven not by unprompted 688 acts of benevolence at the top of the social hierarchy, but by the active unveiling of obfuscated structural violence and 689 resistance to this violence. Scholars and activists with expertise in and toolkits for resistance of forms of structural 690 violence embedded in emerging technology can both gain momentum from and add momentum to the RJ movement. 691

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4 CONCLUSION

Our aim is not to claim digital technologies can only result in reproductive coercion and harm; there are many ways that 696 AI can be deployed to improve lives if designed and deployed equitably, with the voices of marginalised non/users being 697 698 centred in this process. Nor was our aim to give a comprehensive accounting of all of the multitudinous harms caused by 699 migrant detention, incarceration, employment discrimination, child removals, and the many other structurally violent 700 processes that we have mentioned as examples in this paper; RJ activists and scholars have already done this with far 701 greater breadth and depth then we can hope to achieve here. We have merely skimmed the surface. Rather, we wish to 702 add four complementary points to the already rich RJ literature. First, the barriers to RJ we've explored are not unique to 703 704 the digital realm. However, emerging digital technologies are reproducing and amplifying existing barriers in ways that 705 need explicit scrutiny. Second, that false narratives of objectivity are sometimes deployed to obfuscate the structural 706 violent ways technology is being developed and deployed is one reason links between technology and RJ merit further 707 attention. While technology itself does not inherently aim to reproduce and amplify structural violence, it is created for 708 709 and by human beings, and is therefore subject to the same potential biases of any other human-created system. Claims 710 that technology will be a panacea for biased social systems because technology is free from human bias are, simply 711 put, false. Third, digital technologies are not a substitute for strong and equitable social systems. AI may be useful in 712 many contexts for improving efficiency and cutting costs. However, the gaping holes in the social safety net created by 713 714 decades of neoliberal divestment in systems that support people to have and raise families cannot be patched with a 715 technological quick fix (see [26] for more). Fourth, there are some highly concerning trends in emerging technologies 716 which have important implications for RJ. These include (but are not limited to) increasing surveillance, assessing 717 worth, datafication of bodies, monetising inequality and misinformation, and decimating planetary health. Both because 718 719 of the harms (potentially) amplified by emerging digital technologies, and because of the power of activism that seeks 720 to resist this harm, we have sought to highlight the potential for mutual learning and solidarity RJ and computing 721 scholars and activists. 722

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