AUTOBIOGRAPHY OF AN AUDIT: TRACING THE ROOTS AND REPERCUSSIONS OF THE HRT-TRANSGENDER DATABASE

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Introduction and Overview

Much concern has been expressed regarding the difficulty in attending to harms in data collection, distribution, and use in sociotechnical systems (Seaver, 2017; Kitchin, 2016). Arguments around both internal and external audit mechanisms frequently focus on the work of private-sector organisations, which are often seen as responsible for the increasing role of data collection and analytic systems in society (Kerssens, 2019), as well as the site of particular practical barriers to data auditing due to concepts such as trade secrets.

This approach tends to reify the idea that research conducted by universities and other public-sector parties is both more ethical and more easily lends itself to auditing. In reality, the possibility for scrutiny of research utilizing online content to create databases and to train algorithmic prediction is heavily reduced by limited IRB oversight and researcher’s guarded approach to their own data collection and sharing practices. Further, approaches to audits rarely examine the practices of identifying and addressing discursive harms (Hoffmann, 2019; Dencik, Jansen & Metcalfe, 2018) and the affective work and cost of undertaking audits of violent systems.

Documenting our attempts to audit the HRT-Transgender Database - a database collected by a public university in the United States - we engage in a critical examination

of not only data collection practices, but the practical and phenomenological experience of auditing violent research. Doing so raises vital questions that those seeking to design audit mechanisms should attend to.

**Background**

Transgender people often face difficulties in accessing reliable information about navigating the medicolegal systems that gatekeep access to hormones, surgery and other biomedical technologies used in the process of physical transition (Pohjanen and Kortelainen, 2016). Social media communities, particularly those that utilize video recording, have become one of the primary means by which transgender people share vital information that can ease the strain of accessing needed medications and therapies while building a sense of community and social support (Haimson, Dame-Griff, Capello, & Richter, 2019; Horak, 2014).

Repurposing and appropriating these community resources and personal narratives, researchers at the University of North Carolina, Wilmington developed the “HRT-Transgender Database”, a collection of transition progress videos scraped from YouTube and acquired for use in the design of facial recognition systems (Mahalingam & Ricanek, 2013). This database was then made available to other researchers through the project website. Several years after its creation, the database and its authors attracted (largely-negative) media coverage for their work, and eventually shut the project down (Vincent, 2017).

On the surface, this controversy centers on issues that are well-covered in critical data studies and internet research ethics; the problem of treating data as “already public” and the insufficiency of existing accountability mechanisms around algorithmic systems (Zimmer, 2010; Neyland, 2016). Our interest in it, however, stems from our desire to expand on research addressing two other aspects of data’s negative effects and efforts to ameliorate them; the discursive harms of data and the fluid nature of database distribution. By the former, we mean the way that researchers frequently not only repurpose data, but resituate it in cultural contexts where it can be violently deployed against the creator - something that, as Anna Lauren Hoffmann notes, is undertheorised in work around algorithmic ethics (Hoffmann, 2019). By the fluid nature of distribution, we are referencing the way that database repurposing is commonly done across organisational and disciplinary boundaries, undermining accountability mechanisms that assume a singular entity to audit (be that “internally” or “externally”) (Raji et al., 2020). In order to build on this work, we document and narrate our efforts to audit the HRT-Transgender Database and its secondary reusage. Drawing on feminist holistic reflexivity (Cooky, Linabery, Corple, 2018), we not only engage in a critical examination of the practical difficulties in auditing a (theoretically) publicly-accessible data collection process, but grapple with our own emotive experiences of auditing a violent, trans-focused database as a (predominantly trans) research team, and surface the discursive violence central to how the database is framed, narrated and reused. Our work brings into frame vital and critical issues that researchers seeking to design oversight mechanisms should address, and begins a conversation about the visceral and often painful work of providing that oversight.
Conclusion

Our experience of auditing the creation, distribution and reuse of the HRT-Transgender Database provides a vital case study in expanding on existing work on algorithmic accountability and data ethics. Complicating the traditional image of private-sector organisations causing direct material harms due to (for example) issues of database bias, we demonstrate the discursive harms and obfuscatory practices involved in even a supposedly “public” research project. Further, we attend to the cost borne by researchers undertaking audits of violent systems - audits that frequently require close encounters with that violence. We argue from this that conversations around algorithmic accountability must take a more systemic and reflective view, recognising not only idealised accountability processes but the complex and very human failures contained within them in practice, and the affective cost that (frequently, marginalised) auditors take on by seeking to surface harms in this space.

References


Zimmer, Michael. (2010). "'But the data is already public": on the ethics of research in Facebook." *Ethics and information technology* 12.4: 313-325.