

Sex, gender, binaries and categories: frictions in data about humans

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Introduction

- PhD candidate at the University of Essex Human Rights Centre
- Part of the <u>Human Rights</u>, <u>Big Data and Technology</u>

 <u>Project funded by the UK's ESRC</u>
- Former enrichment student at the Alan Turing Institute in London (Jan-Sep 2020)
- Open Life Science Fellow (Sep-Dec 2020)
- Former Researcher/advisor on Sexual Orientation and Gender Identity at Amnesty International (2013-19)
- Background in gender studies and mathematics

Structured information

Data analysis requires data: "the raw material produced by **abstracting** the world into categories, measures and other representational forms"

What is recorded, and how, is a choice.

What is recorded?

	be treated as con	afidenti	al. Str	rict care will	be taken	that no	informa	ation is	disclosed with regard to individual	persons. The returns are	not to be used j	for proof of	age, as in connection with	Old Age Pensio	ns, or for any o	ther purpose
NAME AND SURNAME	RELATIONSHIP to Head of Family.	Clast E	GE Sirthday) SEX.	PART	CULARS :	as to MAE	RRIAGE.			PESSION or OCCUPATION ns aged ten years and upwards.			BIRTHPLACE of every Person.	NATIONALITY of every Person born in a Foreign Country.	INFIRMITY,	LANGUAGE SPOKEN.
every Person, whether Member of Family, Visitor, Boarder or Servant, who		For I	Infants		entered	or each l			Personal Occupation.	Industry or Service with which worker is connected.	Whether Employer, Worker, or Working on Own Account.	Whether Working at Home,	(1) If born in the United Kingdom,	State whether:— (1) "British sub-	If any person in- cluded in this Schedule is:	(1) If able to speak English only, write
(1) passed the night of Sunday April 2nd, 1911, in this dwelling and was alive at midnight, or (2) arrived in this dwelling on the morning of Monday, April 3rd, not having beer enumerated elsewhere. or one else must be included, or order of entering names see Examples o back of Schedule.)	this State whether "Head" or "Wife," "Son," "Daughter," or other Relative, "Visitor," "Boarder," or "Servant."		night of Sunday, nd, 1911, in this and was alive at the of some year if leaf or if leaf		The reply should show the precise branch Profession, Trade, Manufacture, &c. If engaged in any Trade or Manufacture the particular kind of work done, and the Article made or Manufacture in should be clearly indicated. (See Instructions 1 to 8 and Examples on bac of Schedule.)	business carried on by the employer. It this is clearly (1) **Employ the new root here to consider the control of the control		Write the words "At Home" opposite the name of each person carrying on Trade or Industry at home.	write the name of the County, and Town, or Tarish. (2) It horn in any other part of the British Engine, variethe name of the Dependency, Colony, States of the Province States of the Province States of the Province States of the County, write the name of the Country, which can be compared to the Country of Tarish Country of Tarish Country.	ject by parent- age." (2) "Naturalised British subject," giving year of naturalisation. Or (3) If of foreign nationality, state whether s "French," "German," "Russian," etc.	and Dumb," (2) "Totally Blind," (3) "Lunatic," (4) "Imbecile" or "Feeble- minded,"	"English." (2) If able to speak Welsh only, write Welsh. (3) If able to speak English and Welsh, write Both." No entry to be made in this columnforchildren under three				
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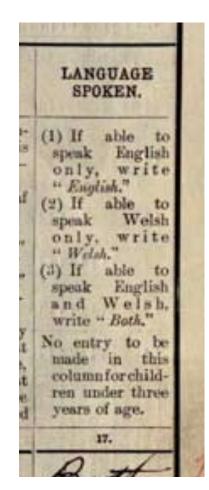
What is recorded?

(2) arrived in this dwelling on the	NAME AND SURNAME	REL
	of Family, Visitor, Boarder or Servant, who (1) passed the night of Sunday, April 2nd, 1911, in this dwelling and was alive at midnight, or (2) arrived in this dwelling on the morning of Monday, April 3rd, not having been enumerated elsewhere. No one else must be included. (For order of entering names see Examples on	Sta " W " Dr. oth. " B "

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What is recorded?

1	BIRTHPLACE of every Person.	P P
at		St
-	(I) If born in the United Kingdom, write the name of the County, and Town, or Parish.	(1
-10	(2) If born in any other part of the British Empire, write the name of the Dependency, Colony,	(2
,,,	etc., and of the Province or State.	
ch	(3) If born in a Foreign Country, write the name of the Country.	(3
	(4) If born at sea, write " At Sea."	
ut	Note.—In the case of persons born elsewhere than in England or Wales, state whether "Resident" or "Visitor" in this Country.	



Feeling the friction

Who doesn't fit into the categories?

"I think you can actually do interesting work with these tools, but I want to hear them making noise, I want to feel the friction, I do not want to increase the transparency" - Donna Haraway

Friction in the 1911 census

Not designed to include:					
Cantonese speakers of ENGLAND AND WALES, 1911.				Number of Sche (To be filled u	tule to by the Enumerator rolliction.)
The contents of the Schedule will be treated as confidential. Strict care will be taken that no information is disclosed with regard to individual persons. The returns are not to be used FEMALE-TIONSHIP NAME AND SURRAME PROFESSION or OCCUPATION OF PERSON and SEX. PROFESSION or OCCUPATION OF PERSON and SEX.	l for proof of		Old Age Pension NATIONALITY of every Person born in a	ns, or for any o	LANGUAGE
of every Gay/lesbian couples to Personal Occupation. Industry or Service with which winder to compected. We when the service with the service		(I) If born in the United Kingdom, write the name of the County.			(1) If able to speak English only, write
- Unmarried women with children	Write the words "At Home" opposite the name of each				"English." (2) If able to speak Welsh only, write "Welsh." (3) If able to speak English and Welsh.
People who don't know how old they	ar	(f) If born at sea, write "At Sea," Norz.—In the case of persons you elsewhere than in England or les, state whether "Resident" or lester " in this Country.			write "Both." No entry to be made in this columnforchild-ren under three years of age.
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People with disabilities (outside of the	e fo	our lis	ted)		Both Both triglish
6 Mary Elizabeth Gerhard Boarder 36 . 50 Married		St Martin Comwal			English

Data on sex

Collected in the UK Census since 1801

Two possible answers: 'Male' or 'Female'

What is your sex?

Male
Female

(last Birthday) and SEX. For Infants under one year state the agre in months as nderone mouth. " one month," Males. Pemales 25. 33

1911

2011

'Sex' and 'gender'

Often conflated

May refer to:

- Legal markers on documents
- Physiological characteristics (at birth, or later)
- Expression, presentation, or behaviour
- Gender identity

Rarely consistently defined in research or law

Anna Lindqvist, Marie Gustafsson Sendén and Emma A Renström, 'What Is Gender, Anyway: A Review of the Options for Operationalising Gender' (2020) 0 Psychology & Sexuality 1 https://doi.org/10.1080/19419899.2020.1729844 accessed 24 May 2021.

Sharon Cowan and others, 'Sex and Gender Equality Law and Policy: A Response to Murray, Hunter Blackburn and Mackenzie' (2020) 30 Scottish Affairs 74 https://euppublishing.com/doi/full/10.3366/scot.2020.0347 accessed 25 February 2021.

Data on sex

Still asked in 2021 'Target concept' is 'sex as recorded on legal/official documents'



Census 2021: Final guidance for the question "What is your sex?"—Office for National Statistics. (n.d.). Retrieved 16 June 2022, from https://www.ons.gov.uk/census/censustransformationprogramme/questiondevelopment/genderidentity/census2021finalguidanceforthequestionwhati syoursex

Data on gender identity

New question in 2021

27 Is the gender you identify with the same as your sex registered at birth?This question is voluntary
☐ Yes
No, write in gender identity

26 2	Which of the following best describes your sexual orientation? This question is voluntary
	Straight/Heterosexual Gay or Lesbian
	Bisexual
	Other sexual orientation, write in

Rigid categories

Sex is often assumed to be:

- The same as gender
- Fixed
- Binary
- Linked to physiological features
- Determinable by a third party

What happens when sex and/or gender is a category in:

- Fraud detection algorithms?
- Healthcare records?

Rigid categories

UK only issues passports with 'F' or 'M' markers

Other countries also issue 'X' markers (including Malta, Denmark, Canada, Nepal, Australia, New Zealand, Pakistan and India)

Gender-neutral passports: Campaigner Christie Elan-Cane loses Supreme Court case

By Joseph Lee

(§ 15 December 2021





A campaigner has lost a Supreme Court case challenging the government's refusal to issue gender-neutral passports.

Christie Elan-Cane said the application process breaches human rights laws by not allowing an "X" option.

But **the court said** applicants' gender was "a biographical detail which can be used to confirm their identity".

Christie Elan-Cane said the case will now go to the European Court of Human Rights.

Choice of variables

MIMI ONUOHA

recent work

news

about

writing

A Quiet Violence

On Classification

The Point of Collection

Us, Aggregated

Missing Data

"What is Missing Is Still There"

The Library of Missing Datasets

The Library of Missing Datasets v2.0

Zines, Prints, Events

The Library of Missing Datasets 2.0 (2018) Installation piece

The second installment in *The Library of Missings Datasets* series focuses on blackness. Black folks are both over-collected and under-represented in American datasets, featuring strongly as objects of collection but rarely as subjects with agency over collection, ownership, and power. Version 2.0 of *The Library of Missing Datasets* speaks to this reality.

Larger project here.



"Other"

Native Americans in the US may have their race recorded as 'other' – including in COVID-19 case data

Where they are recorded as Native explicitly, they are disproportionately likely to be affected

- Arizona: 6% of population but 16% of deaths
- New Mexico: <10% of population but 1/3 of cases

Missing data

HANDBOOK FOR REGISTRATION
Part 2: How To – Registration Interview

Chapter 17
Interview Persons of Concern

If the exact date of birth is not known, then provide the closest estimate possible, and always use 01 for the "day" field.

Example:

If the refugee was born in March 1961, then record: 01-Mar-1961

If the month of birth is not known, but only the year, then always use 01 for the "day" and Jan for the month.

Example:

If it can only be confirmed that the refugee was born in 1961, type:01-Jan-1961

What's (not) in the data frame

Impossible answers – Speakers of other languages in 1911 census

Too-large categories - Binary sex in 2011 census

Hidden in 'other' - Native American COVID-19 deaths

Missing data - Refugee birthdays

...what else could go wrong?

Feminist research

- Challenge the concept of the 'objective' observer
- Centre minoritized and marginalized people (hooks)
- Recognise the ways in which multiple axes of oppression intersect (Crenshaw)
- Collaboration and coalition building (D'Ignazio & Klein)
- Transformative approach to law, human rights, justice and order (Charlesworth)

Queer research

- Interrogate and resist the "normal"
- Make space for the messiness of real life (Brim & Ghaziani)
- Unpack categories (Haber)
- "Feel the friction" (Haraway)
- Challenge the binary of 'big' and 'small' data (Gieseking)
- Space for experimentation and play

Brim, M., & Ghaziani, A. (2016). Introduction: Queer Methods. Women's Studies Quarterly, 44(3/4), 14–27. JSTOR. https://www.jstor.org/stable/44474060

Haber, B. (2016). The Queer Ontology of Digital Method. Women's Studies Quarterly, 44(3/4), 150–169. JSTOR. https://www.jstor.org/stable/44474067 Haraway, D. J. (2004). Cyborgs, Coyotes and Dogs: A Kinship of Feminist Figurations and There Are Always More Things Going On Than You Thought! Methodologies as Thinking Technologies. In The Haraway reader. Routledge.

Gieseking, J. J. (2017). Size Matters to Lesbians Too: Queer Feminist Interventions into the Scale of Big Data [pre-print]. Professional Geographer, 70(1), 150–156. https://doi.org/10.1080/00330124.2017.1326084.

Futural human rights

- Protest scholar: recognize that law can be co-opted and bureacratised (Dembour)
- Human rights as a constant unfinished project (McNeilly)
- Co-liberation (D'Ignazio and Klein)
- Shared liberatory ideology: participatory theory and action (hooks)

Dembour, M.-B. (2010). What Are Human Rights? Four Schools of Thought. Human Rights Quarterly, 32(1), 1–20. JSTOR. https://www.jstor.org/stable/40390000

McNeilly, K. (2016). After the Critique of Rights: For a Radical Democratic Theory and Practice of Human Rights. Law and Critique, 27(3), 269. https://doi.org/10.1007/s10978-016-9189-9

D'Ignazio, C., & Klein, L. F. (2020). Data Feminism. The MIT Press. https://mitpress.mit.edu/books/data-feminism hooks, bell. (2000). Feminism is for everybody: Passionate politics. Routledge.

Article 5(a) of CEDAW

"States Parties shall take all appropriate measures:

To modify the social and cultural patterns of conduct of men and women, with a view to achieving the elimination of prejudices and customary and all other practices which are based on the idea of the inferiority or the superiority of either of the sexes or on **stereotyped roles** for men and women;"

Are categories stereotypes?

The questions that are asked

- Variables that are included, or not

And the possible answers

- Limited options
- Recorded by a third party
- Missing data

3 What is your sex?
→ A question about gender identity will follow if you are aged 16 or over
☐ Female
☐ Male

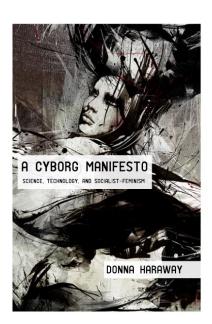
A human rights approach to data

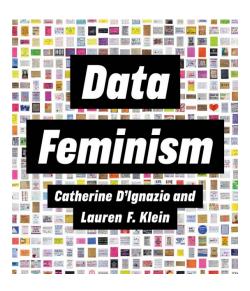
- Feminist collaboration both in theory and in practice
- Resist the 'normal,' make space for play
- Building a co-liberated future that we want to live in

feminist theory
from margin to center

bell hooks









The Human Rights, Big Data and Technology Project

Advancing Human Rights in the Era of Big Data

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