

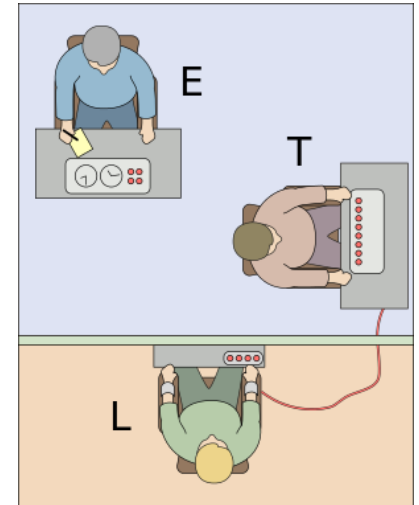
Ethics in CogSci

1. Human Participants in Experiments

- Informed consent to collect data from participants
- Participants receive appropriate debriefing
- Data Protection (GDPR)
- Requires approval from local Ethics Committee



The Stanford Prison Experiment
Philip Zimbardo
<https://www.prisonexp.org/>

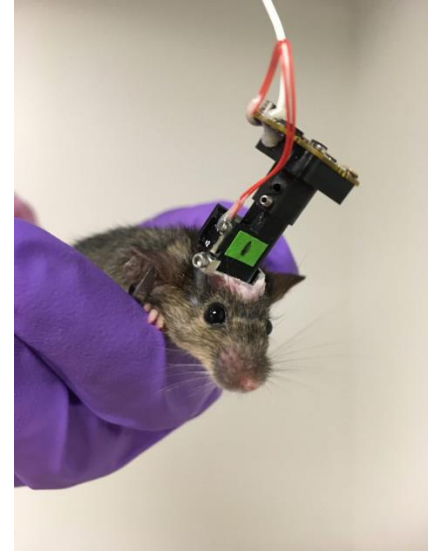


The Milgram Experiment
Stanley Milgram

https://en.wikipedia.org/wiki/Milgram_experiment

2. Animals in Experiments

- Comply with Home Office legislation
- Explain why there is no alternative to using animals
- Justify the number of animals they will use
- Requires approval from local Ethics Committee
- Meets 3Rs standards:
 - Replacement: development + use of models / tools to address important scientific questions without the use of animals.
 - Reduction: careful experimental design, experiments that add to the knowledge base.
 - Refinement: technology focussed on improved animal welfare



Animals in Research

UNDERSTANDING ANIMAL RESEARCH

Animal Research Statistics Great Britain, 2023

Research facilities in Great Britain record the number of scientific procedures carried out on animals each year. Procedures are categorised by severity, they can be as mild as an injection, or as severe as an organ transplant.

2,681,686

Total number of
procedures on animals

1,468,570

55%
Number of experimental
procedures

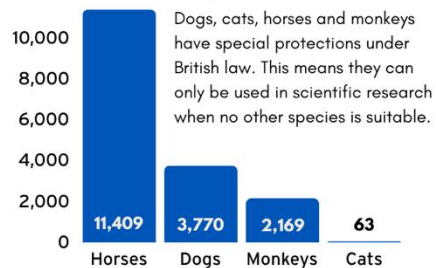
1,213,116

45%
Number of procedures for
the creation and breeding of
genetically altered animals

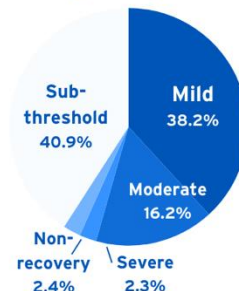
Most commonly used animals

Mice	Fish	Rats	Birds
1,926,079	368,836	148,189	115,466

Animals with special protection



Severity of experiments



3. Scientific Integrity

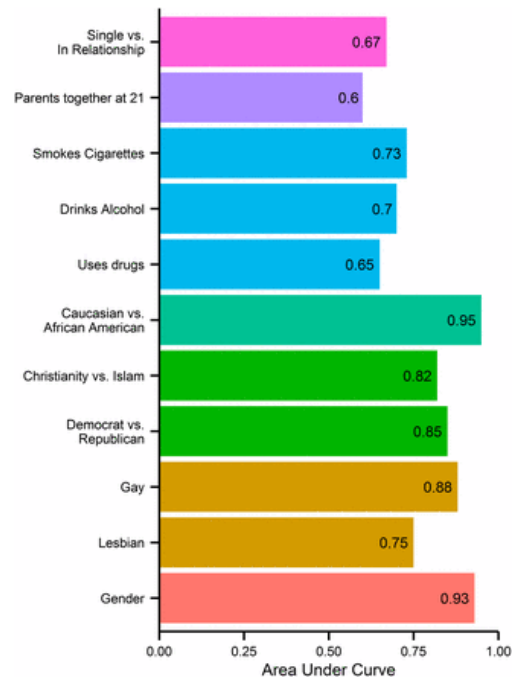
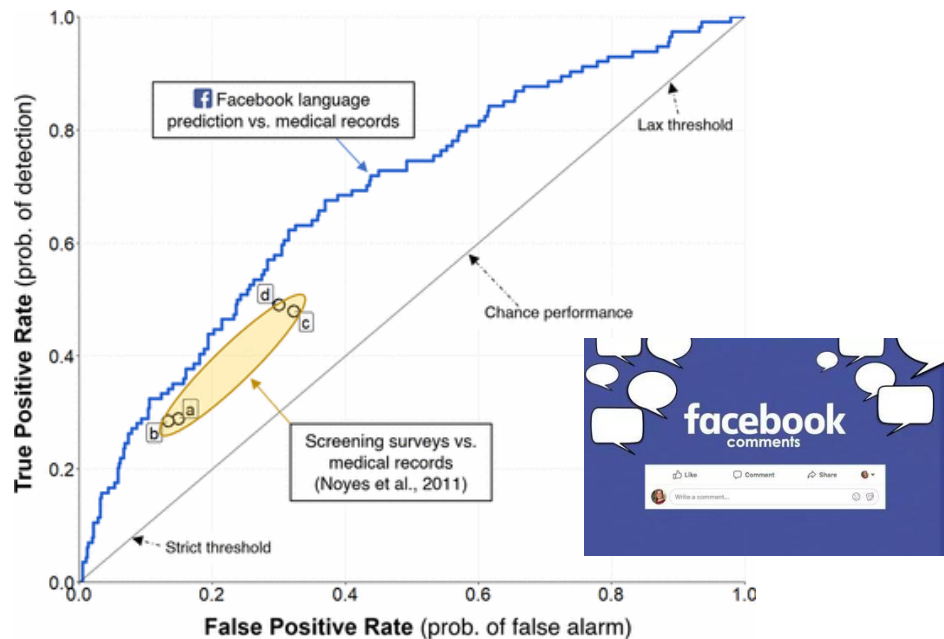
Guarding against all forms of research misconduct:

- Fabrication
- Falsification
- Plagiarism
- Failure to meet ethical, legal and professional obligations
- Misrepresentation of data, attribution, interests, qualifications or publications
- Improper dealing with allegations of misconduct



<https://retractionwatch.com/the-retraction-watch-leaderboard/top-10-most-highly-cited-retracted-papers/>

4. Research and Society: Mental health



<https://www.pnas.org/content/115/44/11203>

Eichstaedt, J.C., Smith, R.J., Merchant, R.M., Ungar, L.H., Crutchley, P., Preotiuc-Pietro, D., Asch, D.A. and Schwartz, H.A., 2018. Facebook language predicts depression in medical records. *Proceedings of the National Academy of Sciences*, 115(44), pp.11203-11208.

<https://www.pnas.org/content/110/15/5802.full>

Kosinski, M., Stillwell, D. and Graepel, T., 2013. Private traits and attributes are predictable from digital records of human behavior. *Proceedings of the national academy of sciences*, 110(15), pp.5802-5805.

5. Research and Society: Your brain

[nature](#) > [nature neuroscience](#) > [articles](#) > [article](#)

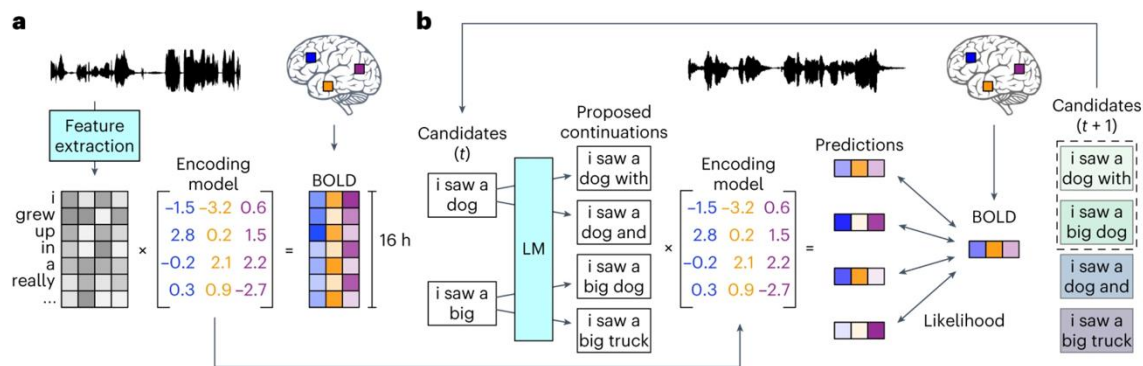
Article | Published: 01 May 2023

Semantic reconstruction of continuous language from non-invasive brain recordings

[Jerry Tang](#), [Amanda LeBel](#), [Shailee Jain](#) & [Alexander G. Huth](#) 

[Nature Neuroscience](#) 26, 858–866 (2023) | [Cite this article](#)

75k Accesses | 4687 Altmetric | [Metrics](#)



c	Actual stimulus	Decoded stimulus	Exact
	<i>i got up from the air mattress and pressed my face against the glass of the bedroom window expecting to see eyes staring back at me but instead finding only darkness</i>	<i>i just continued to walk up to the window and open the glass i stood on my toes and peered out i didn't see anything and looked up again i saw nothing</i>	
	<i>i didn't know whether to scream cry or run away instead i said leave me alone i don't need your help adam disappeared and i cleaned up alone crying</i>	<i>started to scream and cry and then she just said i told you to leave me alone you can't hurt me anymore i'm sorry and then he stormed off i thought he had left i started to cry</i>	Gist
	<i>that night i went upstairs to what had been our bedroom and not knowing what else to do i turned out the lights and lay down on the floor</i>	<i>we got back to my dorm room i had no idea where my bed was i just assumed i would sleep on it but instead i lay down on the floor</i>	Error

The Informatics Ethics Committee

<https://uoe.sharepoint.com/sites/inf-researchservices/SitePages/Ethics.aspx>



Ethics and integrity



Ethics and integrity guiding principles



Ethics resources



Ethics approval duration



Ethics levels



Ethics procedure



Ethics and UK GDPR



Using secondary and social media data



COVID-19 and research