nature portfolio

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Reporting Summary

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

Statistics	
For all statistical ar	nalyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
n/a Confirmed	
☐ ☐ The exact	sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
The statis Only comm	tical test(s) used AND whether they are one- or two-sided non tests should be described solely by name; describe more complex techniques in the Methods section.
A descrip	tion of all covariates tested
☐ X descrip	tion of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
A full dese	cription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) ation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
	ypothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted less as exact values whenever suitable.
For Bayes	ian analysis, information on the choice of priors and Markov chain Monte Carlo settings
For hierar	rchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
Estimates	of effect sizes (e.g. Cohen's d, Pearson's r), indicating how they were calculated
'	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.
Software an	d code
Policy information	about <u>availability of computer code</u>
Data collection	Qualtrics and PsychoPy were used to collect survey and task data, respectively. Surveys and task code is available at https://osf.io/rjqpc/
Data analysis	R was used for data analysis. All code is available at https://osf.io/rjqpc/
For manuscripts utilizing	g custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and

Data

Policy information about availability of data

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

All data are available for public download at: https://osf.io/rjqpc/

Human	research	participants

Policy information about stu	dies involving human research participants and Sex and Gender in Research.	
Reporting on sex and gend	Biological sex and gender are reported in the manuscript.	
Population characteristics	Age, ethnicity, and race are all reported in the manuscript	
Recruitment	Participants were recruited through the UCLA undergraduate psychology subject pool, Amazon's Mechanical Turk, or Prolific	
Ethics oversight	The Institutional Review Board at UCLA approved all study procedures.	
Note that full information on th	e approval of the study protocol must also be provided in the manuscript.	
Field-specific	reporting	
· · · · · · · · · · · · · · · · · · ·	that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.	
	Behavioural & social sciences	
	nt with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>	
Behavioural 8	& social sciences study design	
All studies must disclose on	these points even when the disclosure is negative.	
Study description	uantitative, correlational study	
Research sample	JCLA Undergraduates, Online participants (MTurk, Prolific)	
Sampling strategy	onvenience	
Data collection	Data were collected via the online Qualtrics survey platform and/or Pavlovia.org	
Timing	ll data were collected between May and October of 2022.	
	Data exclusion is detailed at length in the manuscript, but the gist is that certain data from MTurk were excluded if they appeared to be from a fraudulent responder. We abandoned MTurk because of such such responses and switched to Prolific mid-study.	
Non-participation	None dropped out	
	Participants were not sorted in random group. Certain questionnaire items and order of questionnaires or trials on computerized tasks were randomized us Qualtrics or PsychoPy	
Reporting for	r specific materials, systems and methods	
	Ithors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, ant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.	
Materials & experimer		
n/a Involved in the study		
Antibodies ChIP-seq Eukaryotic cell lines Flow cytometry		
Palaeontology and archaeology MRI-based neuroimaging		
Animals and other organisms		
Clinical data		
Dual use research of	concern	