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Characteristics of popular climate policies: A replication study after more than ten years of climate activism

by

Gundula Thiele, Ulrike Senftleben, Stefan Scherbaum, Caroline Surrey

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1 Supplement A: Tables

Table A1

Means and confidence intervals of acceptability ratings for all conditions

		Low-cost behaviour	*High-cost behaviour*
Pull	Weak norm	M = 5.77 95% *CI* [5.24, 6.30]	M = 5.35 95% *CI* [4.75, 5.94]
	Strong norm	M = 6.4 95% *CI* [6.08, 6.72]	M = 6.26 95% *CI* [5.95, 6.58]
Push	Weak norm	M = 5.41 95% *CI* [4.78, 6.04]	M = 4.04 95% *CI* [3.26, 4.82]
	Strong norm	M = 5.69 95% *CI* [5.30, 6.08]	M = 4.66 95% *CI* [4.21, 5.11]

Note: M = mean, CI = confidence interval

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Table A2

Results from the parameter-free analysis of variance

Effect	*ATS*	*df*	*p*
Group	13.15	1, 448.69	$p < .001$
Cost	49.87	1, ∞	$p < .001$
Coerciveness	70.63	1, ∞	$p < .001$
Group x cost	2.26	1, ∞	$p = .133$
Group x Coerciveness	1.86	1, ∞	$p = .172$
Cost x Coerciveness	22.06	1, ∞	$p < .001$
Group x Cost x Coerciveness	0.02	1, ∞	$p = .874$

Note: ATS = ANOVA-type statistic

Table A3

Results from post hoc Wilcoxon signed-rank tests with Holm-correction

Comparison	*V*	*p (Holm-corrected)*
Low-cost: pull vs. push	5222	$p_{Holm} < .001$
High-cost: pull vs. push	9055.5	$p_{Holm} < .001$
Pull: low-cost vs. high-cost	3304.5	$p_{Holm} < .05$
Push: low-cost vs. high-cost	8494.5	$p_{Holm} < .001$

2 Supplement B: Packages

Analyses were conducted using the R Statistical language (version 4.4.2; R Core Team, 2024) on Ubuntu 24.04.3 LTS, using the packages ggrain (version 0.0.4; Allen M et al., 2021), ggpp (version 0.5.8.1; Aphalo P, 2024), papaja (version 0.1.3; Aust F, Barth M, 2024), data.table (version 1.16.4; Barrett T et al., 2024), tinylabels (version 0.2.4; Barth M, 2023), lme4 (version 1.1.35.5; Bates D et al., 2015), Matrix

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(version 1.7.1; Bates D et al., 2024), beeswarm (version 0.4.0; Eklund A, Trimble J, 2021), car (version 3.1.3; Fox J, Weisberg S, 2019), carData (version 3.0.5; Fox J et al., 2022), MANOVA.RM (version 0.5.4; Friedrich S et al., 2023), officer (version 0.6.7; Gohel D et al., 2024), lubridate (version 1.9.4; Grolemund G, Wickham H, 2011), jtools (version 2.3.0; Long JA, 2022), report (version 0.5.9; Makowski D et al., 2023), tibble (version 3.2.1; Müller K, Wickham H, 2023), this.path (version 2.6.0; Simmons I, 2024), groundhog (version 3.2.3; Simonsohn U, Gruson H, 2025), afex (version 1.4.1; Singmann H et al., 2024), ggplot2 (version 3.5.1; Wickham H, 2016), forcats (version 1.0.0; Wickham H, 2023), stringr (version 1.5.1; Wickham H, 2023), tidyverse (version 2.0.0; Wickham H et al., 2019), dplyr (version 1.1.4; Wickham H et al., 2023), purrr (version 1.0.2; Wickham H, Henry L, 2023), readr (version 2.1.5; Wickham H et al., 2024) and tidyr (version 1.3.1; Wickham H et al., 2024).

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