

Impressive climate science

2025-11-05

These are the results of a pilot study, pre-testing stimuli to strengthening trust in climate scientists. This pilot study will inform and support an intervention proposal to a megastudy.

Descriptives

Table 1: Number of participants per condition

condition	n
random	76
control	76
impressive	146
gratitude	150

Table 2: Means of different outcome measures by condition

condition	trust_mean	competence_mean	benevolence_mean	integrity_mean	openness_mean	impressiveness_mean
random	71.18	75.99	70.13	72.62	65.97	2.33
control	82.09	87.25	82.81	82.13	76.18	3.79
impressive	80.18	86.33	80.45	80.03	73.93	4.04
gratitude	77.36	81.23	79.25	77.04	71.92	3.63

Plots

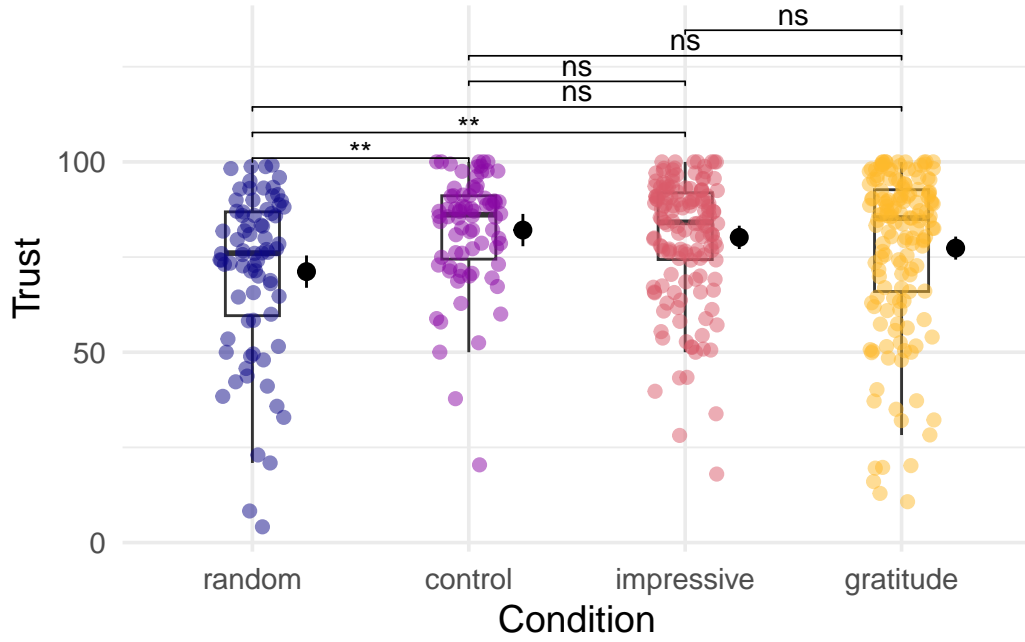


Figure 1: Comparison of the different experimental groups. Asterixes represent adjusted (for multiple comparison) p-values, with adj.p.value $< 0.001 \sim$ “****”, adj.p.value $< 0.01 \sim$ “***”, adj.p.value $\leq 0.05 \sim$ “**”, adj.p.value $> 0.05 \sim$ “ns” (not significant). Black dots and whiskers repret model predictions and 95% CIs.

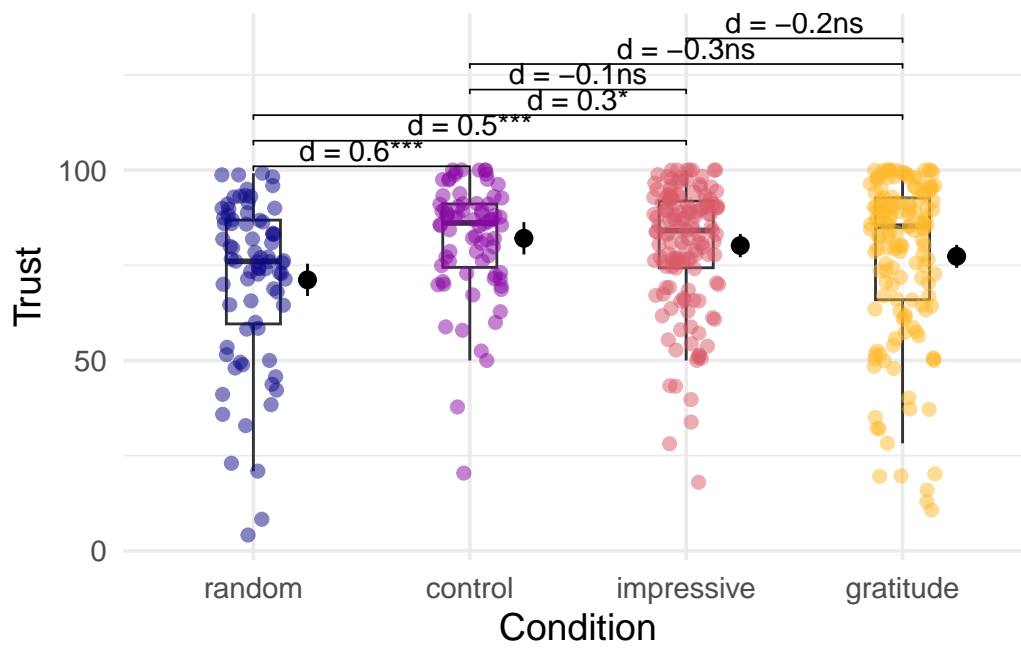


Figure 2: Same plot as above but reporting Cohen's d.