

# Replication of ‘Physiological Arousal and Political Beliefs’

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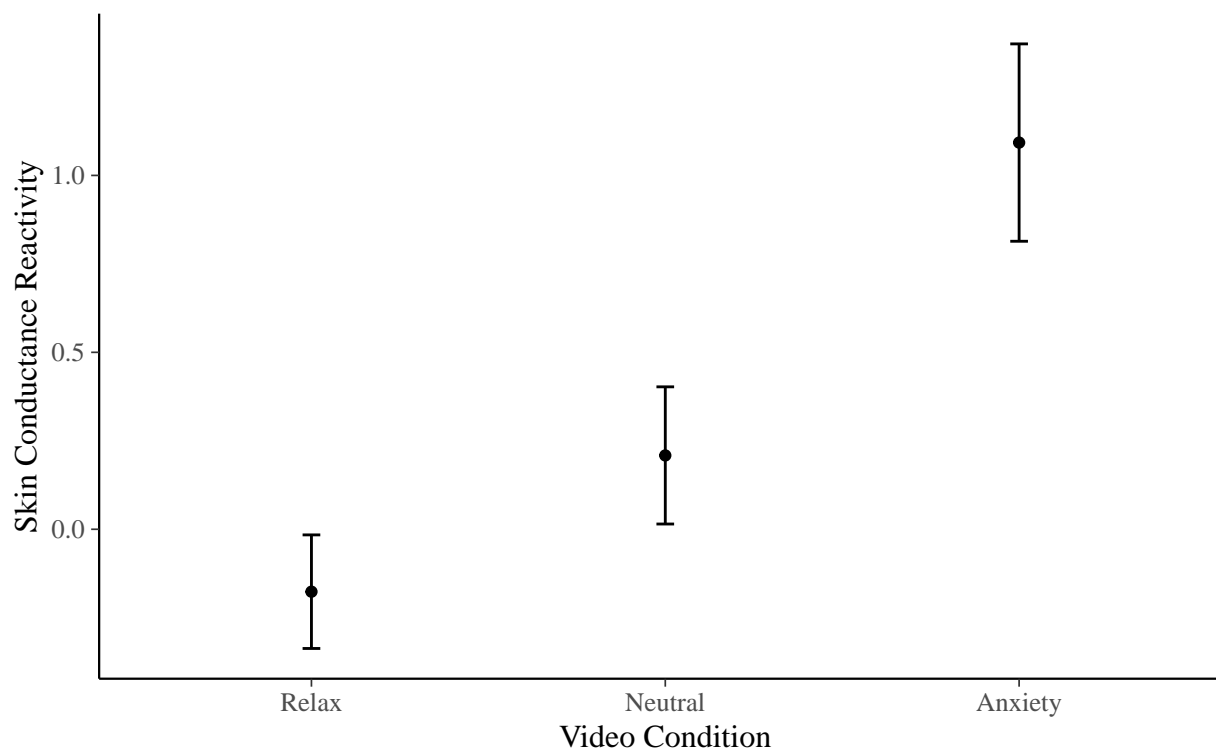
## Abstract

This is a replication of the article “Physiological Arousal and Political Beliefs” using code and data available through the public Harvard Dataverse. Below are replications of Figure 2, Table 1, and Figure 3. Several alterations are made to the replicated figures. Figure 2 is first presented in its original form then in a boxplot transformation in order to convey more distributional information. Two additional models, which include subject fixed effects, were added to table 1 to examine robustness. Finally, Figure 3’s results were replicated using Bayesian distributions rather than frequentist. Formatting was improved for all three.

As an extension of the article’s work, several interaction models, integrating racial-group-specific treatment effects, are explored. These models suggest potentially interesting racial differences in treatment effects, but the power of these results are limited by a scarcity of observations.

## Video Condition Significantly Affects Physiological Anxiety Response

As measured by skin conductance reactivity



## Boxplot Analysis Paints a Far Murkier Picture

Observational distributions display significant overlap

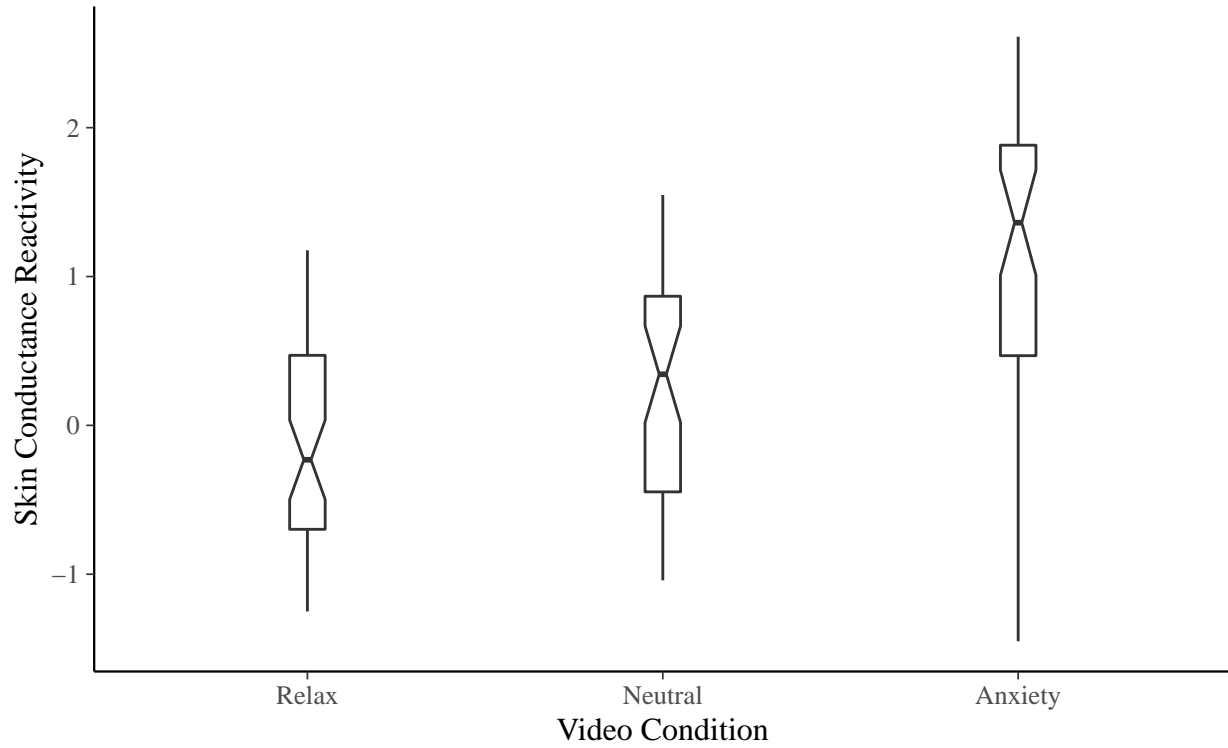


Table 1: Main Results

	<i>Dependent variable:</i>			
	SC Reactivity (1)	Immigration Preferences (2)	SC Reactivity+ (3)	Immigration Preferences+ (4)
Anxiety Manipulation	0.339* (0.195)	-0.277 (0.178)	0.280 (0.204)	-0.449** (0.178)
Story Condition		0.386** (0.176)		0.347** (0.172)
SC Reactivity		0.232** (0.100)		0.202** (0.101)
Subject Fixed Effects			✓	✓
Observations	81	81	81	81
R <sup>2</sup>	0.037	0.120	0.140	0.277

*Note:*

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

## Anxiety Conditions Affect Immigration Stance Through Physiological Activation

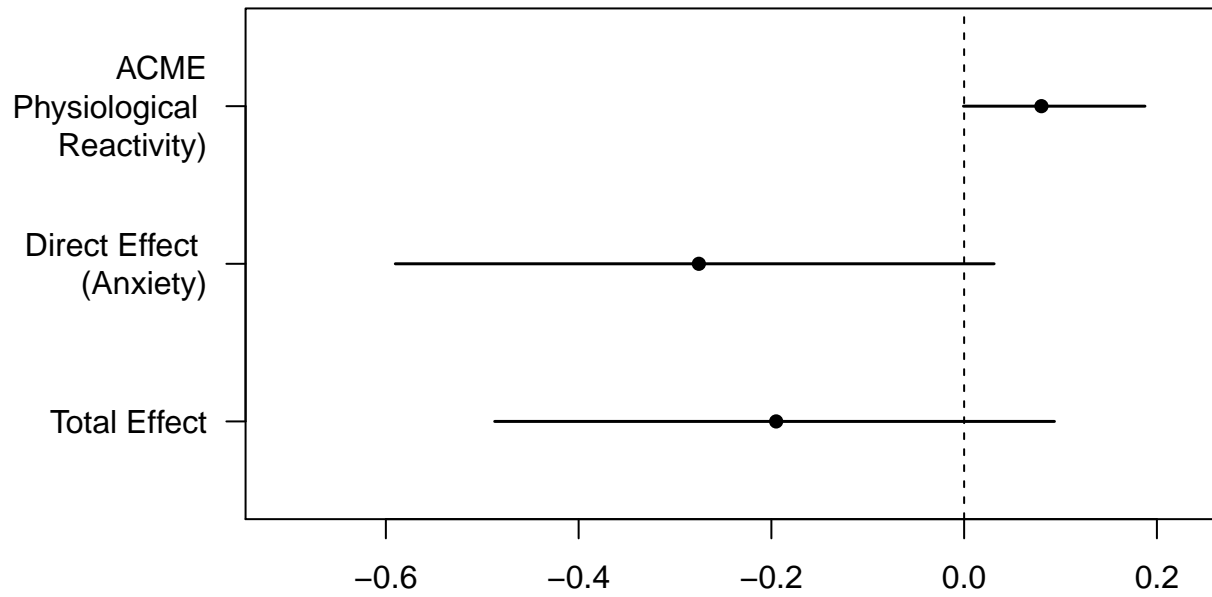


Table 2: Grouped Results

	<i>Dependent variable:</i>		
	Immigration Preferences		
	(1)	(2)	(3)
Anxiety Manipulation	−0.133 (0.908)	−0.038 (0.900)	0.168 (0.895)
Story Condition		0.286 (0.179)	0.321* (0.179)
SC Reactivity			0.186* (0.105)
raceAfricanAmerican	2.109*** (0.237)	2.005*** (0.243)	1.880*** (0.253)
raceAsian	3.000*** (0.393)	2.857*** (0.399)	2.782*** (0.395)
raceCaucasian	2.200*** (0.164)	2.100*** (0.174)	2.059*** (0.173)
raceHispanic	1.400* (0.786)	1.400* (0.778)	1.478* (0.768)
anxcond:raceAfricanAmerican	−0.296 (1.002)	−0.344 (0.992)	−0.561 (0.996)
anxcond:raceAsian	−0.812 (1.017)	−0.895 (1.008)	−1.187 (1.011)
anxcond:raceCaucasian	−0.067 (0.937)	−0.232 (0.933)	−0.462 (0.928)
anxcond:raceHispanic	1.633 (1.323)	1.395 (1.318)	0.895 (1.327)
Observations	83	83	81
R <sup>2</sup>	0.891	0.895	0.899
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01		