

## Emotional route to out-group humanization - Longitudinal study (#4432)

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### 1) Have any data been collected for this study already?

No, no data have been collected for this study yet

### 2) What's the main question being asked or hypothesis being tested in this study?

H1: There will be an increase in humanness perceptions towards protagonist (M1) and group (M2) from Time 1 to Time 2 in the kama muta condition and not amusing condition.

H2: Humanness perceptions at Time 1 predict kama muta at Time 2.

H3: Model from pre-registration #3127 will be replicated.

### 3) Describe the key dependent variable(s) specifying how they will be measured.

The same DVs as in pre-registration #3127 will be used, with the addition of Right-wing authoritarianism (Zakrisson, 2005) and our own humanization measure where "the character" is replaced by the group name.

### 4) How many and which conditions will participants be assigned to?

A 2 within-subjects (emotion content: amusing vs. kama muta) x 2 within-subjects (group content: Blacks vs. gays) x 2 between-subjects (order: amusing first vs. kama muta first) mixed longitudinal design will be used. Time 1: Participants will see a 10 second segment from the videos in their condition. One week later, at Time 2, participants will see the whole video.

### 5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.

All analyses use  $\alpha = .05$  and multiple comparisons are corrected for using the Bonferroni correction.

In each model, time, group, content, order, and their interactions will be added as factors. Slopes will be allowed to vary randomly across participants. Significant interaction terms will be retained in the following models.

H1: Multilevel models will be specified with protagonist humanization (M1) and Kteily and Bruneau's (2017) group humanization (M2) as DVs. Time and content will be added as factors, as well as the interaction of content and time.

H2: A multilevel model will be specified with kama muta (i.e., physiology and labels combined) as DV. Content will be added as a factor, and protagonist humanization (M1) and Kteily and Bruneau's group humanization (M2) at Time 1 will be added as a covariate, interactions of these will also be added.

H3: Structural equation modeling with cross-sectional data at Time 2 will be used. See pre-registration #3127 for model specifications.

In all analyses, we expect to retain group (gay vs. Black) as a significant predictor. However, we do not expect our specifically predicted effects to differ for the two groups.

### 6) Any secondary analyses?

The same model as specified under H3 will be specified but with an overall mean score of kama muta labels and physiology instead of kama muta labels. Our group humanization measure will be replaced by Kteily and Bruneau's measure for exploratory purposes in all analyses.

Multilevel models will be specified with protagonist humanization and group humanization as DVs in separate models. In each of these, time and content will be added as factors, and SDO will be added as a covariate and interactions of these will also be added. Slopes will be allowed to vary randomly across participants. We expect SDO to predict protagonist humanization (Model 1) and group humanization (Kteily & Bruneau) (Model 2), and that there will be a three-way interaction between SDO, time and content. Meaning that after watching a kama muta video, low SDO participants will humanize more compared to Time 1, whereas participants high on SDO will dehumanize more compared to Time 1. For the amusing video, humanization scores will be higher for low SDO participants than for high SDO participants with no effect of time or time\*SDO. For the kama muta content only, we predict that the effect of SDO on the change in humanness from Time 1 to Time 2 is mediated by the total kama muta score (labels + sensations).

We also plan to model the results in MPlus. We predict a multilevel model, with participant at level 2 and measurement at level 1, where protagonist humanization at Time 1 predict more kama muta and protagonist humanization at Time 2. Additionally, we predict that both kama muta and protagonist humanization at Time 2 will predict both feeling thermometer towards the group and CS motivation, and that these will predict group humanization (Kteily

& Bruneau) at Time 2. A multiple groups analysis with content (kama muta vs amusing) will assess moderation of content. We expect that the model where the kama muta factor loadings are unconstrained to the amusement factor loadings will fit significantly better than the constrained model.

**7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.**

A final number of 300 participants will be included in the analyses, after excluding participants due to the criteria specified below.

**8) Anything else you would like to pre-register? (e.g., data exclusions, variables collected for exploratory purposes, unusual analyses planned?)**

Exclusion criteria: (1) Not watching the whole video, (2) not watching the video with sound, (3) not watching the video alone, (4) being of the same ethnicity or sexual orientation as the protagonists in the video (5) not completing the second part of the study.

All variables are inspected graphically and are transformed appropriately if graphical inspection reveals deviations from normality.

An error in the pre-registration regarding the SDO analyses under the secondary analyses section was found after data collection had commenced (data collection started around 23:30 GMT+1 on the 9th of June 2017). This pre-registration is therefore dated later than when data collection started, but the authors have not looked at the data from the 190 responses collected until now, nor downloaded it from the Qualtrics server.