Combating Racism and Sexism through Exposure to Diverse Speakers (#70622)

Created: 07/14/2021 04:48 AM (PT)
Public: 07/14/2021 07:59 AM (PT)

Author(s)
Heba Aly (Clemson University) - haly@clemson.edu
Reza Anaraky (Clemson University) - rghaium@clemson.edu
Bart Knijnenburg (Clemson University) - bartk@clemson.edu

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?
Does Exposure to Positive Non-White Exemplars Reduce Racial Biases? Does Exposure to Positive Female Exemplars Reduce Gender Biases?

3) Describe the key dependent variable(s) specifying how they will be measured.
Racial and gender biases: At the end of the experiment, the participants will review and rate LinkedIn profiles of speakers applying for an inspirational speech competition. The applicant's evaluation depends on his/her profile application quality, likability, and technical skills (Jarrell et al., 2021). All profiles are identical except for the name and personal photo that identify the applicant's race and gender. Therefore, participants should rate them equally across all evaluation aspects. Otherwise, that will be an evidence of race and gender biases towards applicants.

4) How many and which conditions will participants be assigned to?
This study will use a 5 x 2 between-subjects design. The two between-subjects factors will be: race (White speaker, Black speaker, Asian speaker, Indian speaker, Middle eastern speaker), and speaker gender (female, male). Thus, there will be ten conditions in total.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.
We will conduct ANOVA analyses. All conditions will be compared against the condition where users watched non-diverse videos of white speakers and evaluated white applicants.

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.
We will exclude cases where participants fail to complete watching any inspirational video or fail to answer 90% of questionnaire after each video. Additionally, participants who fail to complete the evaluation of applicant's LinkedIn profile or who complete the survey in less than quarter of the median completion time are excluded.

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.
Using the G-Power tool, we conducted an a priori power analysis to determine the required number of participants indicating a medium effect size of interest (f=.25) in an F test (ANOVA, fixed main and interaction effects) involving 10 conditions (5X2 design). To achieve power of .85, 40 participants are needed per condition, or at least 400 participants in total. We will aim to recruit 500 participants to account for potential mistakes during the experiment.

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