Obaidi et al 2019

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Contents

Table 1: Files downloaded for Obaidi et al. (2019)

File name	MD5 Hash
Results - Sample 1 - Denmark - 2017-03-06.sav	225349848e3d2432d271408842dc7648
Results - Sample 2 - Denmark - 2017-03-06.sav	475b1fbf6ef8d75c8151cfbd4271f2b3
Results - Sample 3 - Denmark - 2017-03-06.sav	67a71d944b8d07d39870f86a41e8035d
Results - Sample 4 - Denmark - 2017-03-06.sav	77afdb745d07e6164b2178c0e8f0e53a
Results - Sample 5 - Belgium - 2018-02-27.sav	5c1dc91cfd85f5d5db4a4a8be6b51e6c
Results - Sample 6 - West - 2018-02-27.sav	2d76692d373f09a8c5c96e00066add58
Results - Sample 7 - Sri Lanka - 2018-02-27.sav	31ad256e91d03866fb4934223e85a2a5

1 Introduction

This documents contains the reanalysis of the following paper:

Obaidi, M., Bergh, R., Akrami, N., & Anjum, G. (2019). Group-Based Relative Deprivation Explains Endorsement of Extremism Among Western-Born Muslims. *Psychological Science, 30*(4), 596–605.

Obaidi et al. (2019) performed their analysis on a mix of SPSS and proprietary meta-analysis software. However, all re-analyses were performed in R.

The analysis code is available at https://github.com/ljcolling/odp-obaidi. This document is automatically built. To manually build this document, clone the git repository and run `make all`.

1.1 Data download

A total of 7 files were downloaded from https://osf.io/zny2m. The downloaded files the MD5 hashes are shown in Table 1.

2 Results

The primary analyses were all reported in Tables 1–3. Therefore, our re-analysis attempted to reproduce these tables. Our reproduction of Table 1 from Obaidi et al. (2019) in shown in 2. Apart from a few minor rounding errors we were able to reproduce the results.

Our reproduction of Table 2 from Obaidi et al. (2019) in shown in 3. Apart from a few minor rounding errors we were able to reproduce the results.

Table 2: Reproduction of Table 1 (Obaidi et al., 2019)

Variable	Study 1	Study 2	Study 3	Study 4	Study 5	Study 6
Birthplace						
Group-based relative depravation	.82*	.06	.13*	.37*	.70*	.54*
Muslim identification	.33*	.31*	.29*	.29*	.49*	.39*
Perceived injustice	.64*	.11	.05	.24*	.46*	.42*
Group-based anger	.45*	.19*	.10	.19*	.46*	.41*
Violent behavioral intentions	.29*	.11	.05	.31*	.66*	.34*
Group-based relative deprivation						
Muslim identification	.38*	.32*	.35*	.50*	.62*	.42*
Perceived injustice	.72*	.46*	.47*	.49*	.68*	.56*
Group-based anger	.55*	.58*	.60*	.51*	.67*	.65*
Violent behavioral intentions	.44*	.25*	.34*	.37*	.76*	.54*

There are very minor differences in the results; however these are likely due to random variation in the bootstrapping procedure.

Finally, our reproduction of Table 3 from Obaidi et al. (2019) in shown in 4. Our results again matched the reported results except for very small differences. These differences likely result from difference in the bootstrapping procedure that lead to the differences in 3. Additionally, Obaidi et al. (2019) did not report their method for fitting the random effects model and as a result we employed the DerSimonian-Laird estimator as this appeared to match the reported results most closely.

`R` information

We performed our analysis on R version 4.0.0 (2020-04-24) with all packages installed from a timestamped version of MRAN (date: 2020-06-06). The following R packages were used: R Core Team (2020b), Wickham, François, et al. (2020), Wickham (2020), R Core Team (2020a), Wickham, Chang, et al. (2020), Müller (2017), Bache and Wickham (2014), Bates and Maechler (2019), Viechtbauer (2020), Revelle (2020), Henry and Wickham (2020), Wickham et al. (2018), Hester et al. (2020), Wickham (2019a), Müller and Wickham (2020), Wickham and Henry (2020), Wickham (2019b), Wickham (2016), Viechtbauer (2010), Wickham et al. (2019).

Table 3: Reproduction of Table 2 (Obaidi et al., 2019)

Study	Muslim identification	Perceived injustice	Group-based anger	Violent behavioral intentions
1	0.44 (0.25) [-0.03, 0.98]	1.16 (0.32) [0.55, 1.83]	0.83 (0.31) [0.24, 1.43]	1.03 (0.43) [0.23, 1.93]
2	0.06 (0.08) [-0.08, 0.23]	0.07 (0.09) [-0.1, 0.25]	0.12 (0.14) [-0.16, 0.41]	0.04 (0.05) [-0.05, 0.15]
3	0.12 (0.07) [0, 0.26]	0.18 (0.09) [0, 0.37]	0.28 (0.14) [0.01, 0.57]	0.09 (0.05) [0, 0.21]
4	0.47 (0.1) [0.3, 0.68]	0.41 (0.08) [0.27, 0.59]	0.46 (0.09) [0.29, 0.65]	0.29 (0.08) [0.14, 0.46]
5	1.02 (0.22) [0.62, 1.47]	1.02 (0.2) [0.67, 1.44]	1.12 (0.24) [0.71, 1.65]	0.95 (0.24) [0.5, 1.46]
6	0.44 (0.11) [0.24, 0.65]	0.72 (0.1) [0.53, 0.92]	1 (0.11) [0.79, 1.23]	0.84 (0.11) [0.63, 1.06]

Table 4: Reproduction of Table 3 (Obaidi et al., 2019)

Dependent variable	Weighted mean effect	SE	95% CI	z	p
Muslim identification	0.38	0.11	[0.16, 0.59]	3.38	<.01
Perceived injustice	0.53	0.14	[0.25, 0.8]	3.70	<.01
Group-based anger	0.61	0.16	[0.29, 0.93]	3.73	<.01
Violent behavioral intentions	0.43	0.13	[0.17, 0.69]	3.24	<.01

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