

Do you agree with bullshit? The relation of bullshit receptivity and agreeableness



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Abstract

A General Bullshit Receptivity Scale was developed with aim to explore the bullshit receptivity in more complex background compared to the original Bullshit Receptivity Scale. 459 participants, representative of the Slovak population, filled out two bullshit measures (the original BSR and the new GBSR), together with a measure of the Big5 (BFI-XS), cognitive reflection, and several questionnaires measuring epistemologically suspect beliefs and ontological confusion. Perceived profoundness was related to perceived truthfulness and likeability. Of the Big5 variables, agreeableness correlated both with the original and the new measure of bullshit receptivity on all dimensions (except profoundness of transcendental bullshit). Interestingly, conscientiousness correlated positively with judgment of profoundness of general bullshit, while Openness correlated positively with judgment of profoundness of transcendental bullshit. As expected, we found significant correlations between accepting bullshit (both transcendental and general) and adhering to all kinds of unsupported beliefs.

Introduction

One of the challenges of examining bullshit is that despite our common understanding of the term, it remains unclear what features of bullshit make it so appealing that many people accept it as profound and true thought. So far, a decent amount of work has been done in the area of so called pseudotranscendental bullshit (Pennycook, Cheyne, Barr, Koehler, & Fugelsang, 2015) and research has shown that higher receptivity to bullshit is connected with other conceptually related concepts, such as endorsement of other epistemically suspect beliefs (paranormal phenomena, pseudoscientific claims, conspiracy theories), ontological confusion and lower intelligence and cognitive reflection. We do not know yet, however, whether receptivity to pseudotranscendental bullshit is manifestation of more general bullshit receptivity or if there are individual differences in receptivity to specific kinds of bullshit. Therefore, it is important to identify and examine bullshit receptivity in other, more general domains, where its content extends far beyond the lines of spiritual or transcendental communication. Thus, the main focus of this paper is to examine how to measure bullshit in these nontranscendental domains, such as politics, health and relationships and what features of bullshit are prominent for its acceptance.



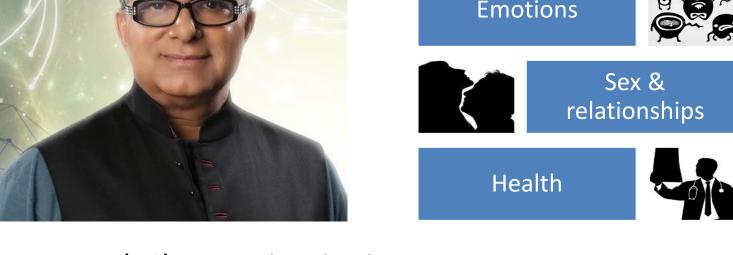
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Figure 1. Deepak Chopra – inspiration Figure 2. Content domains for pseudo-profound bullshit items in GBRS. in BSR

Methods and Materials

458 participants (220 women) from Slovakia aged between 18 and 65 (M = 28.93, SD = 13.38) took part in the study.

General Bullshit receptivity Scale – 13 items rated on profoundness, truthfulness and likeability Bullshit receptivity Scale (Pennycook et al., 2015) Epistemcally suspect beliefs (Halama, 2018) Conspiracy Mentality Questionnaire (Bruder, Haffke, Neave, Nouripanah, & Imhoff, 2013) Pseudoscientific beliefs (Lundström & Jakobsson, 2009)

Ontological Confusion (Lindeman & Aarnio, 2007) Paranormal Belief Scale (Randall, 1997) Cognitive Reflection Test (Frederick, 2005) Big Five Inventory – BFI-XS (Soto & John, 2017) Daily Spiritual Experience Scale (Underwood, 2011)

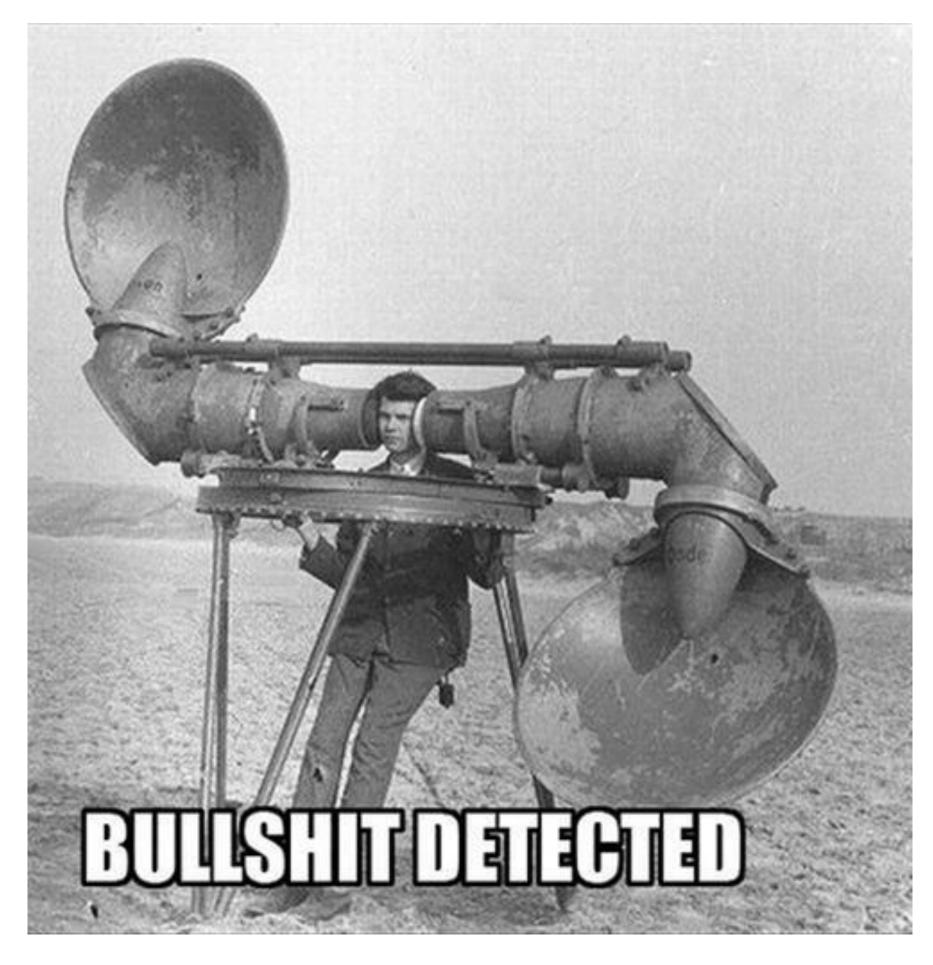


Figure 3. Bullshit detector.

Results

Results show high correlations between assessing BRS and GBRS items in truthfulness, profoundness and likeability, which suggests that also GBRS is valid instrument for measurement of bullshit. At the same time, these correlations suggest that transcendental and more general bullshit probably differ in important aspects.

Moreover, because mean ratings of truthfulness, profundity and likeability were higher for GBSR than BRS we analysed these differences by pair-wise ttests and found all of them to be significant: t = 14.773, p < .001 for truthfulness, t = 7.552, p < .001 for profundity, and t = 7.280, p < .001 for likeability. We also examined gender differences in bullshit receptivity and relationships with age and education. Results showed that while men and women did not differ in their ratings of likeability (t = 0.539, p = .590), women in general rated bullshit statements as more truthful (t = 3.594, p < .001) and profound (t = 2.403, p = .017).

The higher participants rated bullshit as truthful, profound and likeable, the more likely it was for them to believe in other epistemically unwarranted suspect beliefs, the more ontologically confused and less cognitively reflective they were.

Table 1. Correlations between the two bullshit receptivity measures and Big5.

	Extraversion	Agreeable ness	Conscienti ousness	Neuroticism	Onenness
	Extraversion	11033	o dones	Treat octoistit	o permess
BRS - truthfulness	0.06	.106*	011	01	0.06
BRS - profundity	0.064	0.082	001	005	.114*
BRS - likeability	.098*	.153**	.026	074	.028
GBRS - truthfulness	.055	.160**	.027	.028	.025
GBRS - profundity	.086	.165**	.109*	019	022
GBRS - likeability	.054	.151**	.055	006	005

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Discussion & Conclusion

The major difference between BRS and GBRS can be seen in their relationship with personality dimensions. Similarly as Bainbridge et al. (2018) we found correlation between profundity rating in BRS and Openess, but there was no correlation between profundity rating in GBRS and Openess. Bainbridge et al. used only profundity ratings and concentrated on examining Openess/Intelect simplex, while we used extra short version of Big Five which does not allow us to analyse individual facets, however, we find these results distinctive of GBRS from BRS. According to Bainbridge et al. (2018) apophenia, which is defined as "the perception of patterns or causal connections where none exist" (DeYoung et al., 2012, p. 63), lies at the extreme of Openess. Bainbridge et al. (2018) used ontological confusion as a measure of apophenia and in our research it was again shown that also general bullshit is related to ontological confusion (Bainbridge et al., 2018; Čavojová et al., 2018; Mækelæ et al., 2018). Moreover, in our study we examined also other personality dimensions and found that profundity rating in GBRS was associated with higher trait of Conscientiousness and Agreeablness (again in contrast with profundity ratings in BRS). It highlights possible differences between the two kinds of bullshit each measure captures – while pseudoprofound bullshit may be more connected with general openess, accepting more mundane bullshit may be connected more with not wanting to appear rude by challenging and doubting other people's statements.

Acknowledgment

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