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**As Predicted:***"Individual Differences in Receptivity to Scientific Bullshit: Study 2"* (#4949)

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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?**  
Our first question is how do pseudo-profound bullshit receptivity (PPBR) and scientific bullshit receptivity (SBR) correlate with the following variables: political ideology; belief in science; faith in intuition; and need for cognition.  
  
Our second question is how does controlling for acquiescence effect those previously established correlations.  
  
Our main hypotheses are: 1) the correlations established in Study 1 will be replicated (conservatism predicts PPBR; belief in science predicts SBR); 2) faith in intuition will correlate positively with PPBR; 3) need for cognition will correlate positively with SBR; 4) these results will remain robust when controlling for acquiescence.  
  
**3) Describe the key dependent variable(s) specifying how they will be measured.**  
Our two key dependent variables are PPBR and SBR. We will measure them with two separate scales, namely Scientific Bullshit Receptivity Scale (our newly created measure) and Pseudo-profound Bullshit Receptivity Scale (Pennycook et al., 2015).  
  
**4) How many and which conditions will participants be assigned to?**  
We will measure the following variables: 1) political orientation in two different dimensions (social and fiscal conservatism), which will be measured with SECS – Social and Economic Conservatism Scale (Everett, 2013); 2) belief in science, which will be measured with Belief in Science Scale (Farias, Newheiser, Kahane & Toledo, 2013); 3) need for cognition, which will be measured with the Need for Cognition Scale (Cacioppo, Petty & Kao, 1984); 4) faith in intuition, which will be measured with the Faith in Intuition Scale (Epstein, Pacini, Denes-Raj & Heier, 1996); and 5) acquiescence, which will be computed from the BFI-10 using the method introduced in Rammstedt & John, 2010.  
  
**5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.**  
Hypotheses 1-3 will be tested with correlations, while hypotheses 4-5 will be tested with linear regression models.  
  
**6) Any secondary analyses?**  
We do not predict to use any specific secondary analyses.  
  
**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.**  
We determined the needed sample size by computing it based on expected coefficients. Our calculation with α = 0.05, β = 0.2 (80% statistical power) and r = 0.12 resulted in expected sample size of 540 participants.  
  
**8) Anything else you would like to pre-register?  
(e.g., data exclusions, variables collected for exploratory purposes, unusual analyses planned?)**  
For exploratory purposes, we will also include demographics, political trust, and political identity items.