

## Inherence Bias Leads to Is-to-Ought Inferences, February 2016 (#435)

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

An inherence bias in explanation positively predicts is-to-ought inferences for typical, but not atypical, behaviors.

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

Responses to participants' "should" and "wrong or right" questions will be averaged across trials to create an "ought" composite, which will serve as our main dependent variable.

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

Two conditions (within-subjects): Atypical Behaviors vs. Typical Behaviors

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

Participants' "ought" judgments will be regressed on condition (Typical/Atypical), the Inherent-minus-Extrinsic Explanations measure (Inherence Bias scores), and the interaction of these two variables.

The regression may also include subjects' performance on the Cognitive Reflection Test (CRT), their education level, and their conservatism (measured with one item), as well as the 2-way interactions between condition (Typical/Atypical) and these three controls (CRT, education, and conservatism).

### 5) Any secondary analyses?

### 6) 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.

200.

The original study in which we found, as predicted, a significant interaction between condition (Typical/Atypical; within-subject) and participants' bias toward inherent explanations had about 115 participants. We increased the sample size for this replication by ~75% to provide even more power to detect this predicted result.

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

We will exclude any subjects who (1) miss 2 or more of our 4 attention check items, or (2) indicate they didn't pay attention when asked during the debriefing portion of the study.

We may also check for outliers on the dependent and independent variables (+/- 3 SDs).

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

No, no data have been collected for this study yet