1	Supplement: Origins of Disbelief				
2	Will M. Gervais*				
3	$Maxine~B.~Najle^{\dagger}$				
4	$Sarah\ R.\ Schiavone^{\ddagger}$				
5	Nava Caluori§				
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	*University of Kentucky, Psychology, will.gervais@gmail.com †Blue Labs Analytics, Washington, D.C. ‡University of California-Davis, Psychology §University of Virginia, Psychology				

12 The Preregistration

- We preregistered a series of analyses. Here, we lay out models and model summaries for all of these analyses.
- 14 Here's what we preregistered:
- "We will perform a series of 7 confirmatory tests on the full sample. Each model will be run
- twice: first with no covariates, then including age, gender, politics, education, & personality as
- 17 covariates."

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- This entails a series of models:
- 1. Does each factor independently replicate?
- 1. We will replicate mentalizing in a model with mentalizing (linear and quadratic terms) predicting religion.
 - 2. We will replicate motivation in a model with the motivation items predicting religion.
 - 3. We will replicate cultural learning in a model with CREDs predicting religion.
 - 4. We will replicate cognitive style in a model with the CRT predicting religion.
- 2. Relative contributions?
 - 5. We will run a model with all four factors predicting religion.
- 3. Specific hypothesized interactions?
- 6. To test whether cognitive style's effects differ across cultural learning, we will have a model in which CRT, CREDs, and their interaction predict religion.
 - 7. To test the hypothesis that mentalizing is especially important in the context of cultural learning and motivation, we will have a model with mentalizing, CREDs, motivation and the mentalizing-by-CREDs and mentalizing-by-motivation interaction terms predicting religion.
- The main manuscript summarizes: our full model (all four primary predictors plus covariates), a binary
- 34 full model, the cultural learning-by-cognitive reflection interaction with covariates, and essentially zero-order
- $_{35}$ $\,$ replication analyses. Here, we spell out preregistered analyses not already included.

Table 1: Predicting Disbelief: Individual Replication Analyses With Covariates

Variable	Beta	HPDI	Pr
mindblind	0.06	[0, 0.13]	0.98
mentalizing (quad)	0.01	[-0.03, 0.04]	0.69
apatheism	-0.01	[-0.07, 0.06]	0.4
inCREDulous	0.29	[0.23, 0.34]	> 0.99
analytic	0.13	[0.07, 0.18]	> 0.99

Note:

1. Individual Replications

- As the models without covariates are already summarized in the main document, here is the summary
- for each model including covariates. Nothing much changes from the main models reported in the main
- paper. in CREDulous atheism and analytic atheism still repicate soundly, and mindblind atheism is also
- fairly evident. Apatheism is still essentially absent. Table 1 summarizes the individual replication results.

 $^{^{1}}$ Beta = standardized beta

 $^{^2}$ HPDI = 97% Highest posterior density interval 3 Pr = posterior probability of Beta > 0

Table 2: Full Model, No Covariates

Variable	Beta	HPDI	Pr
mindblind	0.03	[-0.03, 0.08]	0.88
mentalizing (quad)	0.02	[-0.01, 0.05]	0.9
apatheism	-0.03	[-0.09, 0.02]	0.11
inCREDulous	0.38	[0.32, 0.43]	> 0.99
analytic	0.22	[0.16, 0.27]	> 0.99

Note:

2. Relative Contributions

- The main document includes a full model with all key predictors and covariates predicting disbelief. Here,
- we report the model sans covariates for completeness with the preregistration. Again, not much changes. In
- this case, mindblind atheism appears even less important.

 $^{^1}$ Beta = standardized beta 2 HPDI = 97% Highest posterior density interval 3 Pr = posterior probability of Beta >0

45 3. Interactions: Mindblind Atheism

- 46 We pursued speculation that mindblind atheism might be especially pronounced in contexts in which other
- pathways to atheism are muted. If this is the case, for example, then we might expect interactions between
- 48 mindblind atheism and both cultural exposure to religion and existential security, such that mindblind
- 49 atheism would be more evident among people relatively higher in religious CREDs or lower in existential
- security. Alas, we did not find interactions between mindbline atheism and in CREDulous atheism, $\beta = 0$,
- [-0.05, 0.05], $P(\beta > 0 \mid data) = 0.5$ or with apatheism, $\beta = 0.03$, [-0.02, 0.08], $P(\beta > 0 \mid data) = 0.88$. This
- is in a sense unsurprising because mindblind atheism was not especially robust across alternative models
- throughout this project.