

A benchmark dataset for detecting frames in multi-topical news content: Online Appendix

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Comparing confidence level of correct and incorrect expert coding

We modeled the correctness of expert coding (“F1” is equal to the ground truth) and confidence level (“F2”), while adjusting for individual differences between the two experts using Bayesian multilevel logistic regression analysis. The following is the robust conditional effect plot. There is no evidence to suggest that there is a trend. Therefore, experts can either confidently give correct and incorrect coding.

Regression coefficients

Table 1
Fixed Effects

Parameter	Median	89% CI	pd	Rhat	ESS
(Intercept)	0.47	(0.39, 0.56)	100%	1.003	1053.00
method_typeSemisupervised	-0.11	(-0.22, -0.01)	96.17%	1.004	993.00
method_typeAutomatic	-0.16	(-0.25, -0.07)	99.12%	1.002	939.00

Table 2
Sigma

Parameter	Median	89% CI	pd	Rhat	ESS
sigma	0.05	(0.05, 0.06)	100%	1.001	3081.00

$R^2 = 0.1730794$

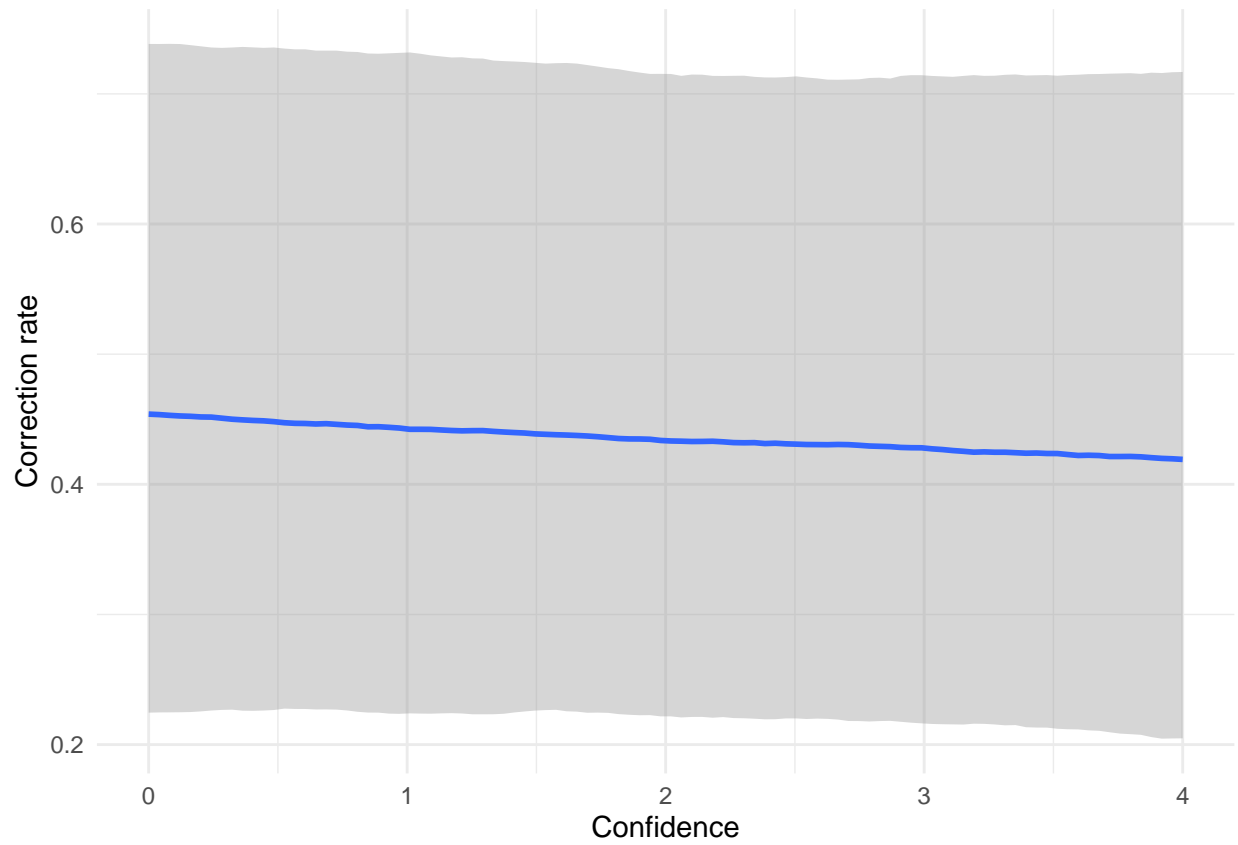


Figure 1. Robust conditional effects from the Bayesian model on the relationship between correction rate of expert coding and confidence at 89% credibility