

Model's weight comparison to attribute plausibility

Table SW1: Weight comparison among model with Attitude as outcome variable

	Pseudo-BMA without Bayesian bootstrap	Pseudo-BMA with Bayesian bootstrap	Bayesian stacking
Model 1	0.000	0.005	0.056
Model 2	0.000	0.001	0.112
Model 3	0.000	0.000	0.000
Model 4	0.000	0.001	0.000
Model 9	0.001	0.068	0.000
Model 10	0.999	0.924	0.833

Table SW2: Weight comparison among model with Familiarity as outcome variable

	Pseudo-BMA without Bayesian bootstrap	Pseudo-BMA with Bayesian bootstrap	Bayesian stacking
Model 5	0.821	0.672	0.685
Model 6	0.000	0.030	0.083
Model 7	0.000	0.016	0.057
Model 8	0.179	0.282	0.175

Model 2

Equation:

$$\textit{Attitude} \sim \textit{Christianity} + \textit{Islam} + \textit{Buddhism}$$

Where

- *Attitude* is attitude towards emotional AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);

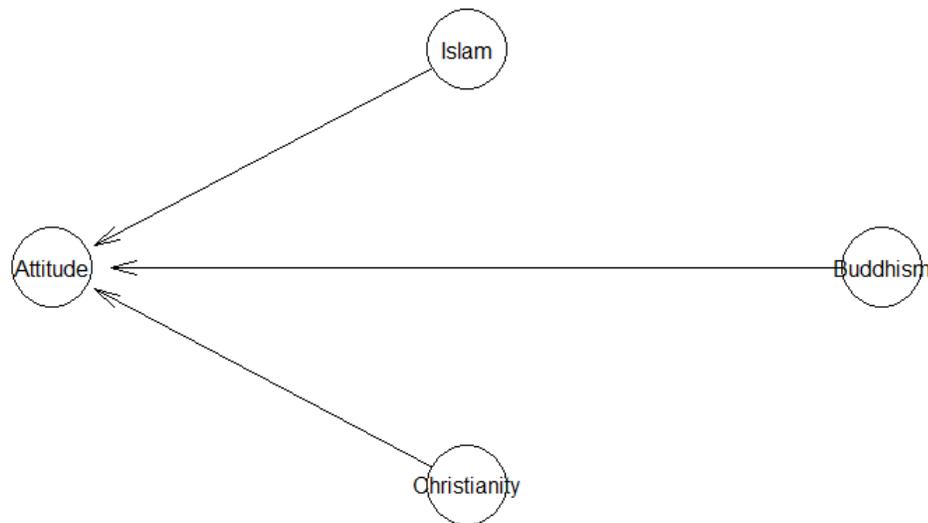


Figure S2.0. Visualization of model 2

Table S2.1: Posterior estimate of model 2

	Mean	SD	n_eff	Rhat
a_Attitude	2.86	0.04	6837	1
b_Christianity_Attitude	-0.17	0.08	9363	1
b_Buddhism_Attitude	-0.13	0.07	7737	1
b_Islam_Attitude	-0.34	0.08	9413	1

Monte Carlo SE of $\textit{elpd_loo}$ is 0.0.
All Pareto k estimates are good ($k < 0.5$).

Posterior Diagnostics

Trace plot diagnostic

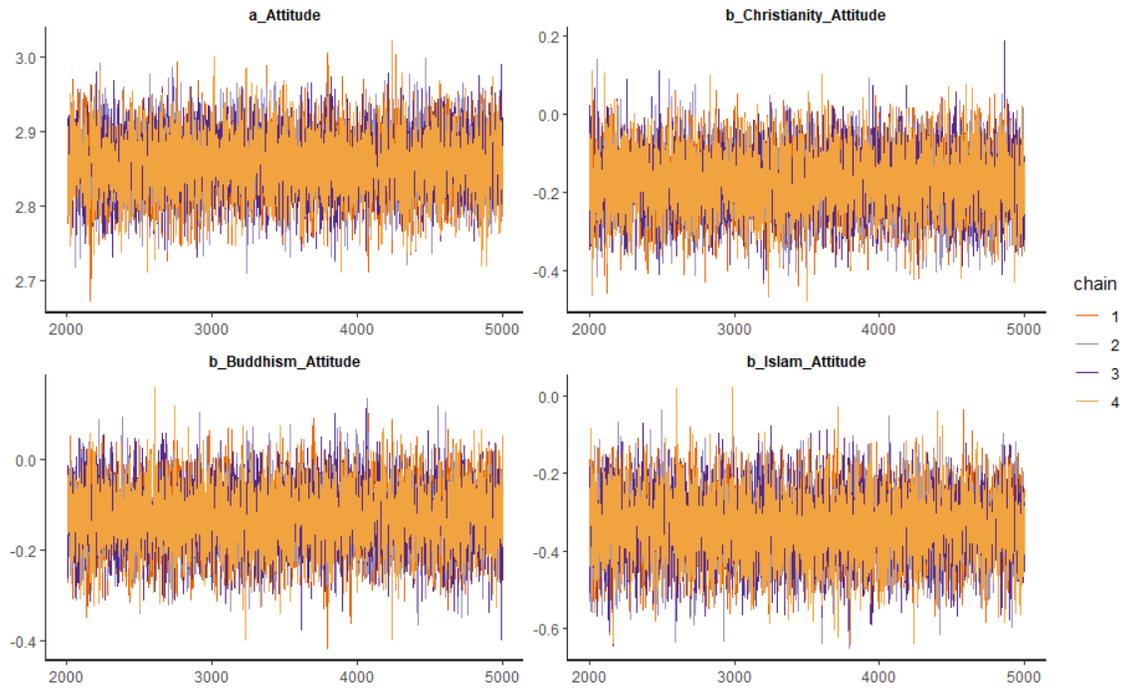


Figure S2.1: Trace plot diagnostic for model 2.

Gelman diagnostic

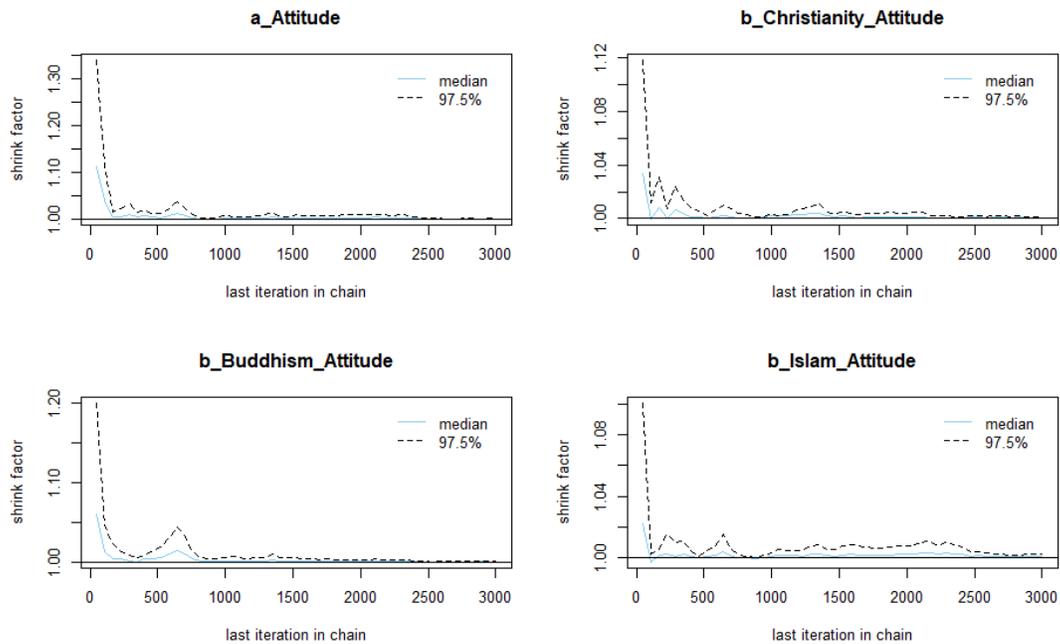


Figure S2.2: Gelman diagnostic for model 2

ACF diagnostic

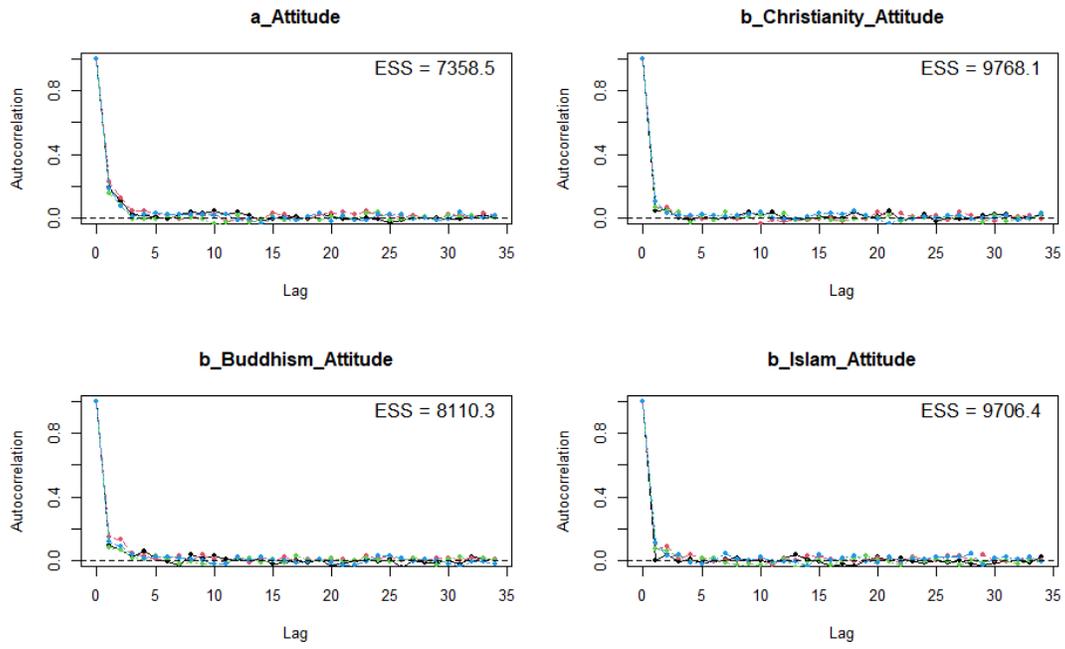


Figure S2.3: ACF diagnostic for model 2

Posterior results
Interval distribution

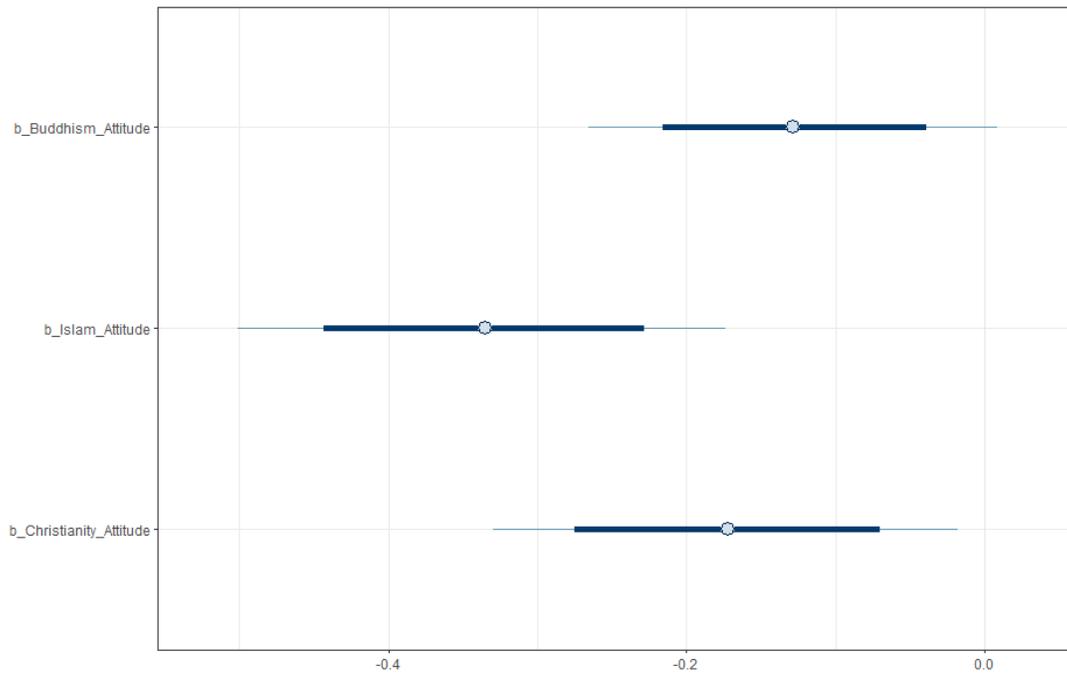


Figure S2.4: Model 2's posterior interval distribution

Density distribution

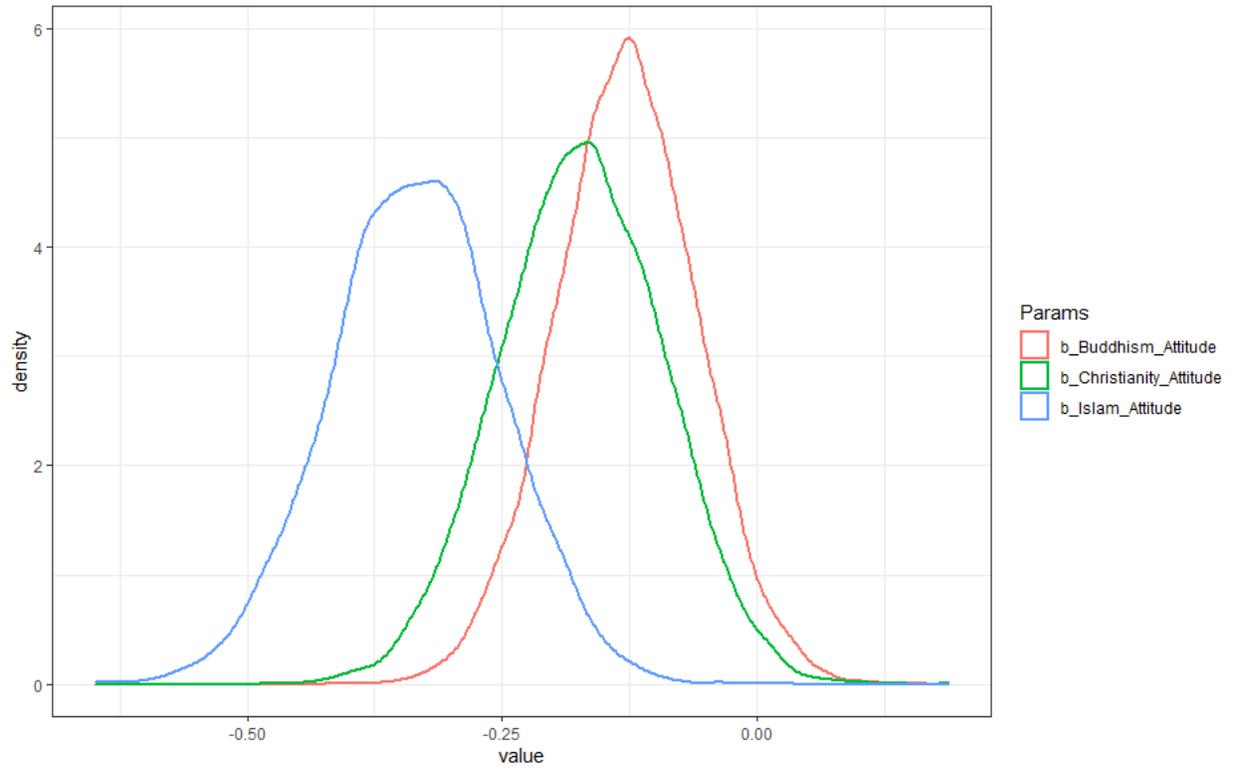


Figure S2.5: Density distribution for model 2

Density distribution with HPDI

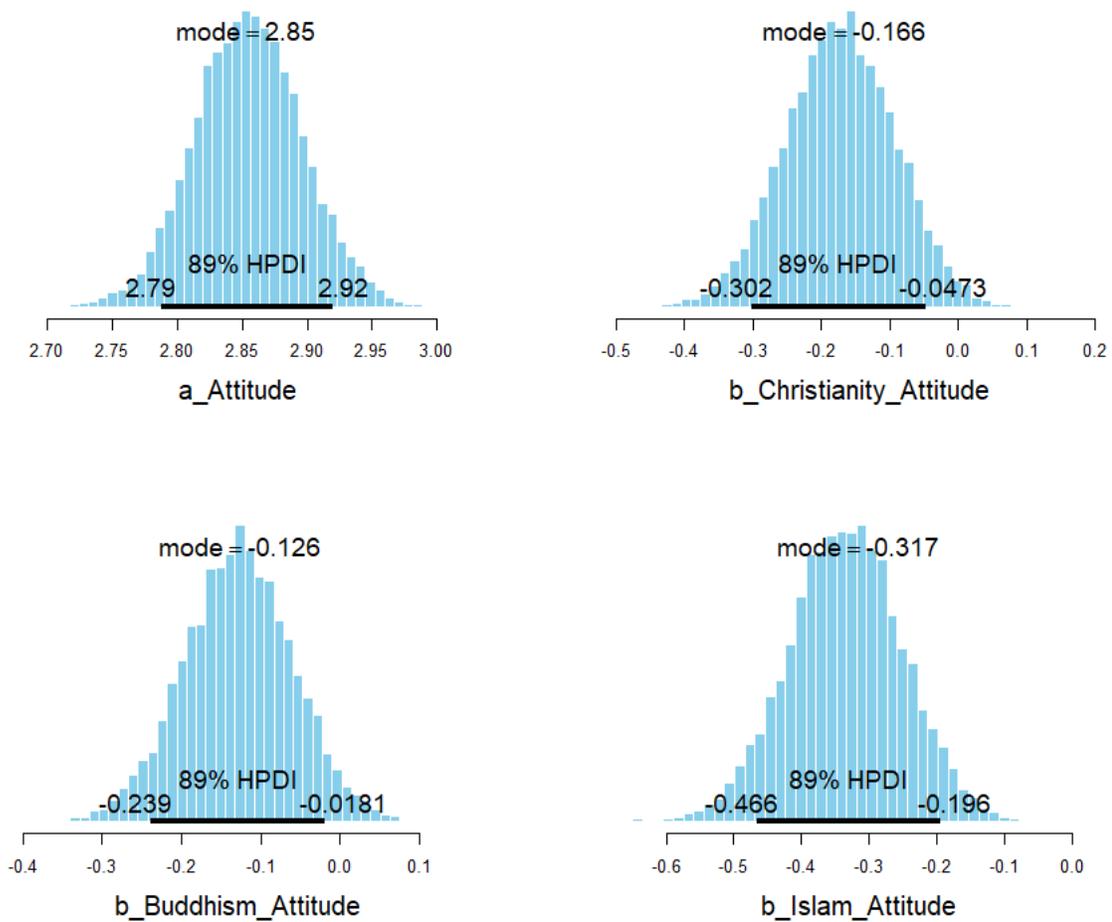


Figure S2.6: Density distribution with HDPI for model 2

Model Fit Diagnostic

Loo test

Computed from 12000 by 775 log-likelihood matrix

	Estimate	SE
<code>elpd_loo</code>	-897.7	19.0
<code>p_loo</code>	4.9	0.3
<code>looic</code>	1795.4	38.0

Monte Carlo SE of `elpd_loo` is 0.0.

All Pareto k estimates are good ($k < 0.5$).
See `help('pareto-k-diagnostic')` for details.

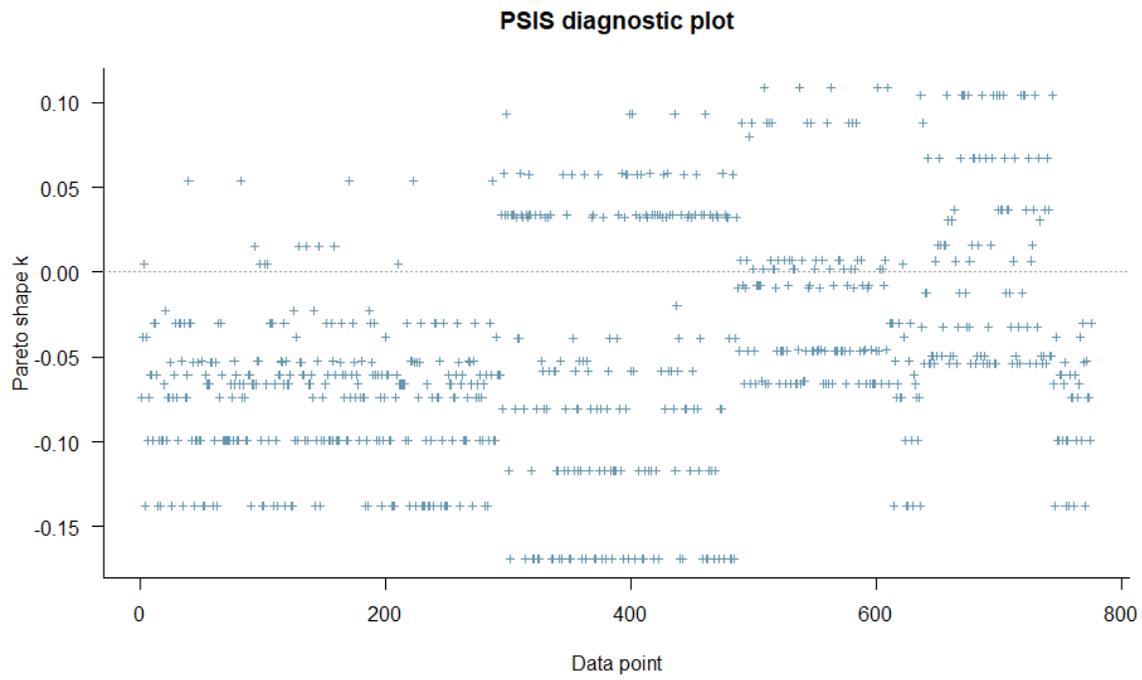


Figure S2.7: PSIS diagnostic plot for model 2

Marginal predictive distribution

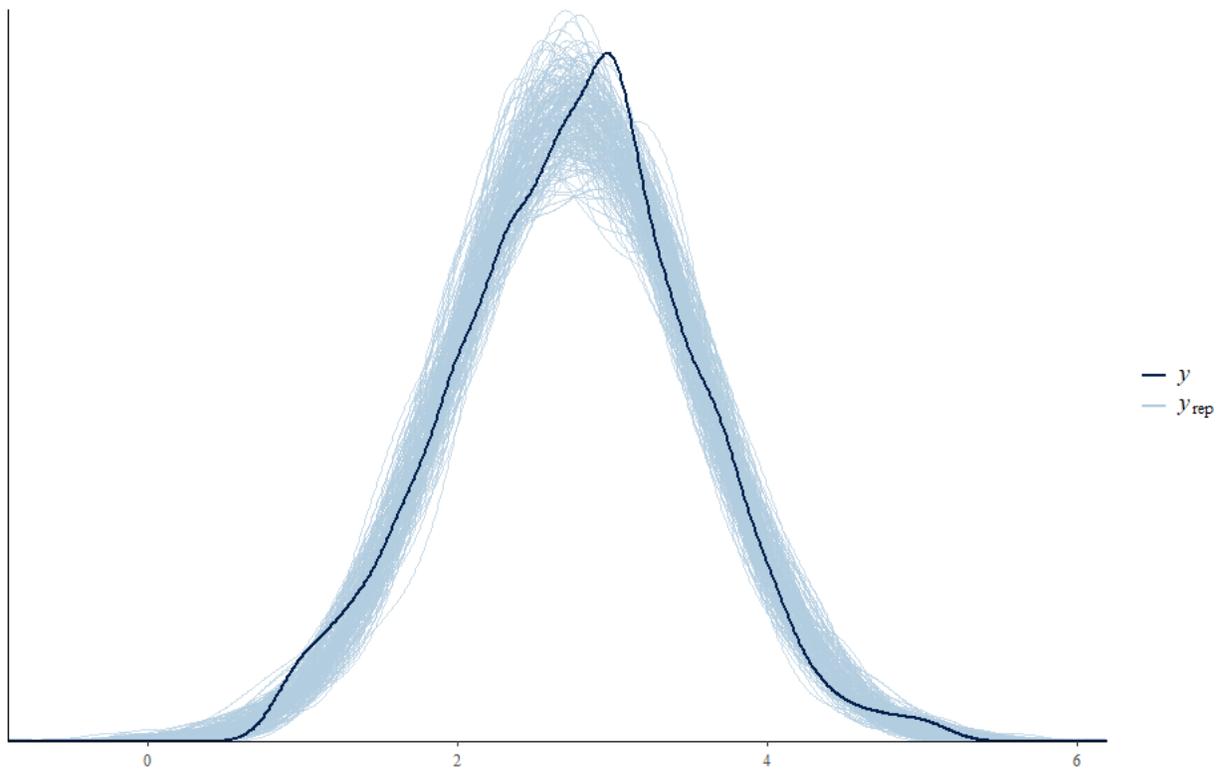


Figure S2.8: Marginal predictive distribution for model 2

WAIC test

Computed from 12000 by 775 log-likelihood matrix

	Estimate	SE
elpd_waic	-897.7	19.0
p_waic	4.9	0.3
waic	1795.4	38.0

Model 3

Equation:

$$Attitude \sim Christianity + Islam + Buddhism + Christianity_Religiosity + Islam_Religiosity + Buddhism_Religiosity$$

Where

- *Attitude* is attitude towards emotional AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);
- *Religiosity* is the level of respondent's religiosity (ordinal/continuous variable);
- *Buddhism_Religiosity* is interaction between *Buddhism* and *Religiosity* so that $Buddhism_Religiosity = Buddhism * Religiosity$ (continuous variable);
- *Christianity_Religiosity* is interaction between *Christianity* and *Religiosity* so that $Christianity_Religiosity = Christianity * Religiosity$ (continuous variable);
- *Islam_Religiosity* is interaction between *Islam* and *Religiosity* so that $Islam_Religiosity = Islam * Religiosity$ (continuous variable).

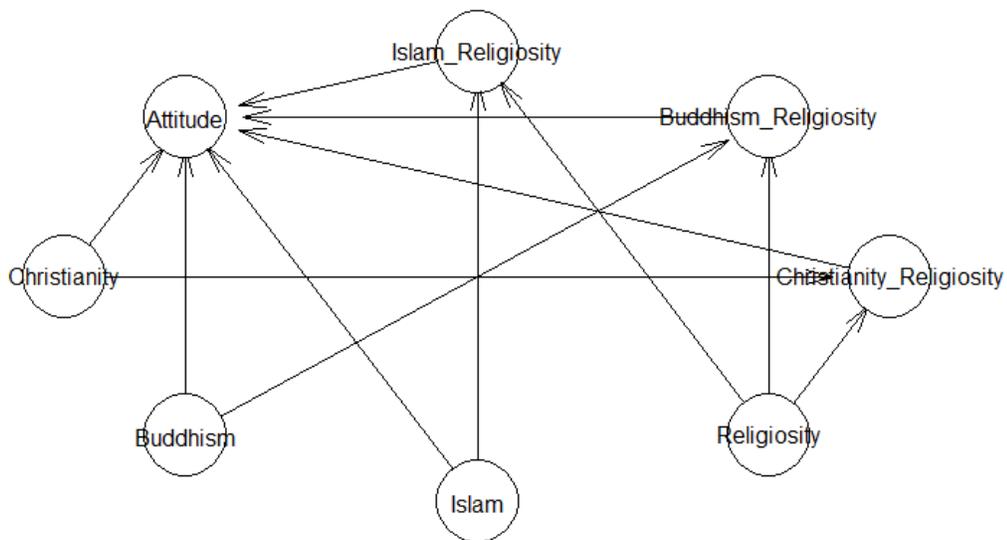


Figure S3.0. Visualization of model

Table S3.1: Posterior estimate of model 3

	Mean	SD	n_eff	Rhat
a_Attitude	2.85	0.04	8625	1
b_Christianity_Attitude	-0.13	0.09	9681	1
b_Christianity_Religiosity_Attitude	-0.08	0.17	15126	1
b_Buddhism_Attitude	-0.10	0.07	9751	1
b_Buddhism_Religiosity_Attitude	-0.26	0.20	17805	1
b_Islam_Attitude	-0.30	0.10	10034	1
b_Islam_Religiosity_Attitude	-0.09	0.17	13051	1

Monte Carlo SE of elpd_loo is 0.0.
 All Pareto k estimates are good ($k < 0.5$).

Posterior Diagnostics

Trace plot diagnostic

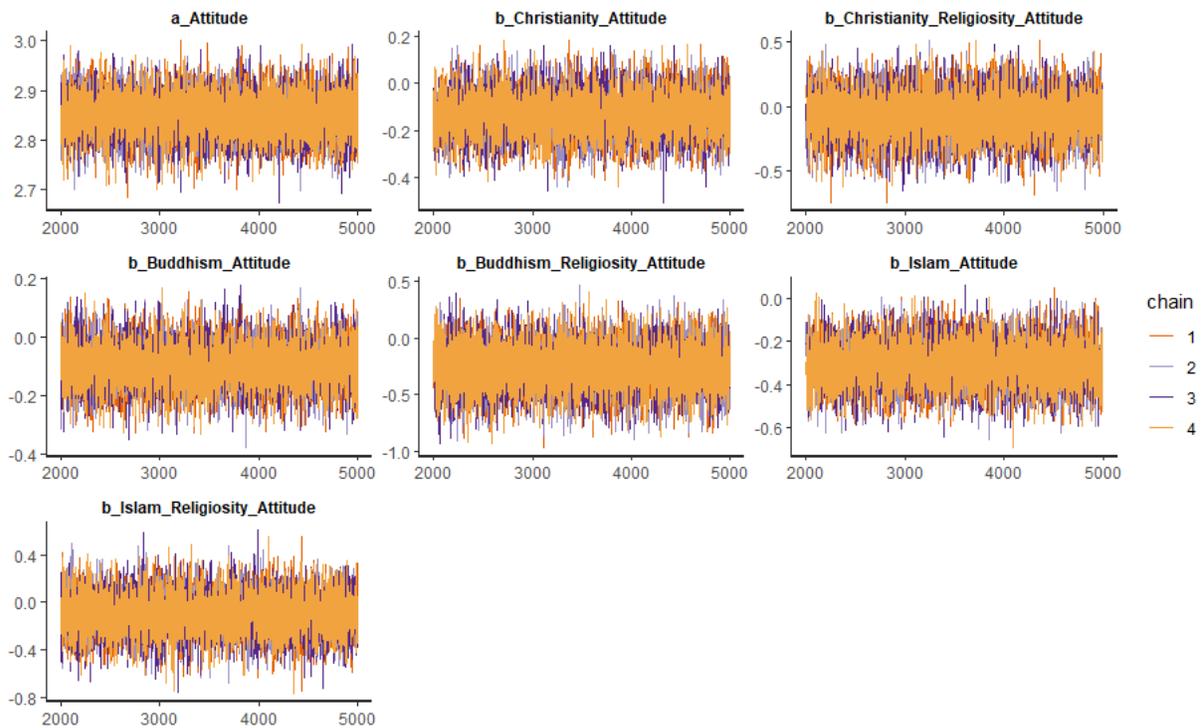


Figure S3.1: Trace plot diagnostic for model 3.

Gelman diagnostic

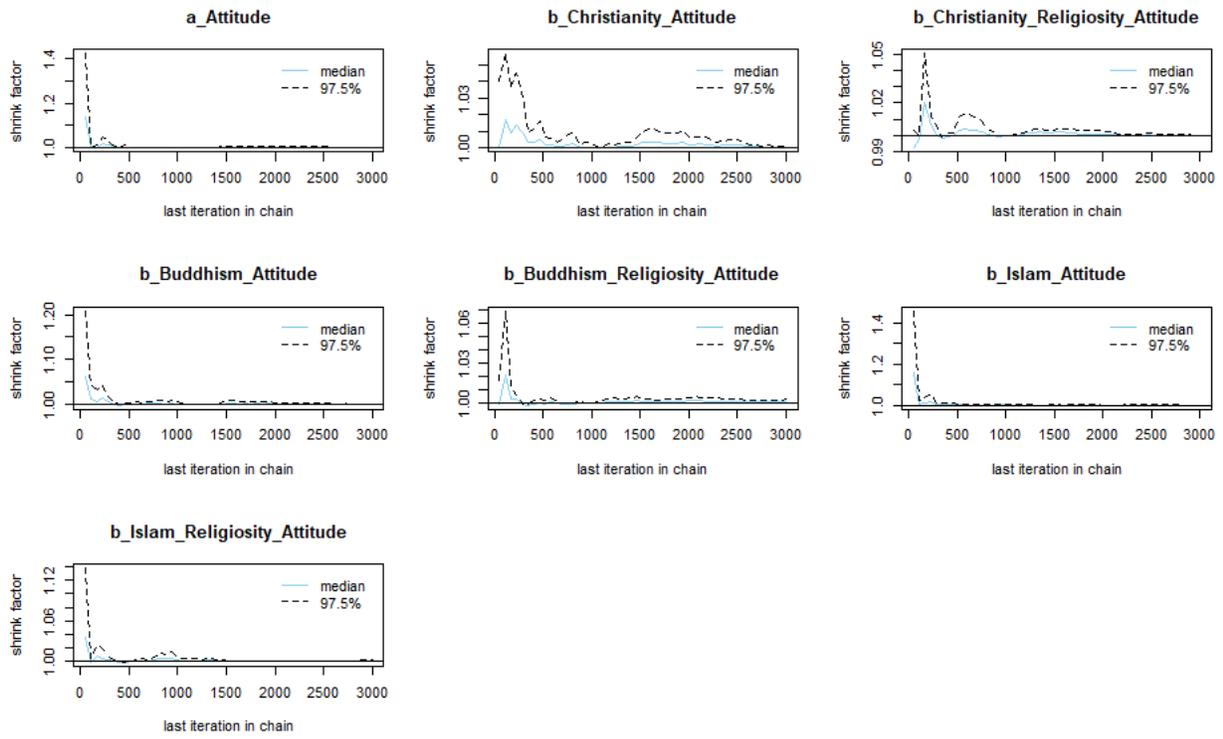


Figure S3.2: Gelman diagnostic for model 3

ACF diagnostic

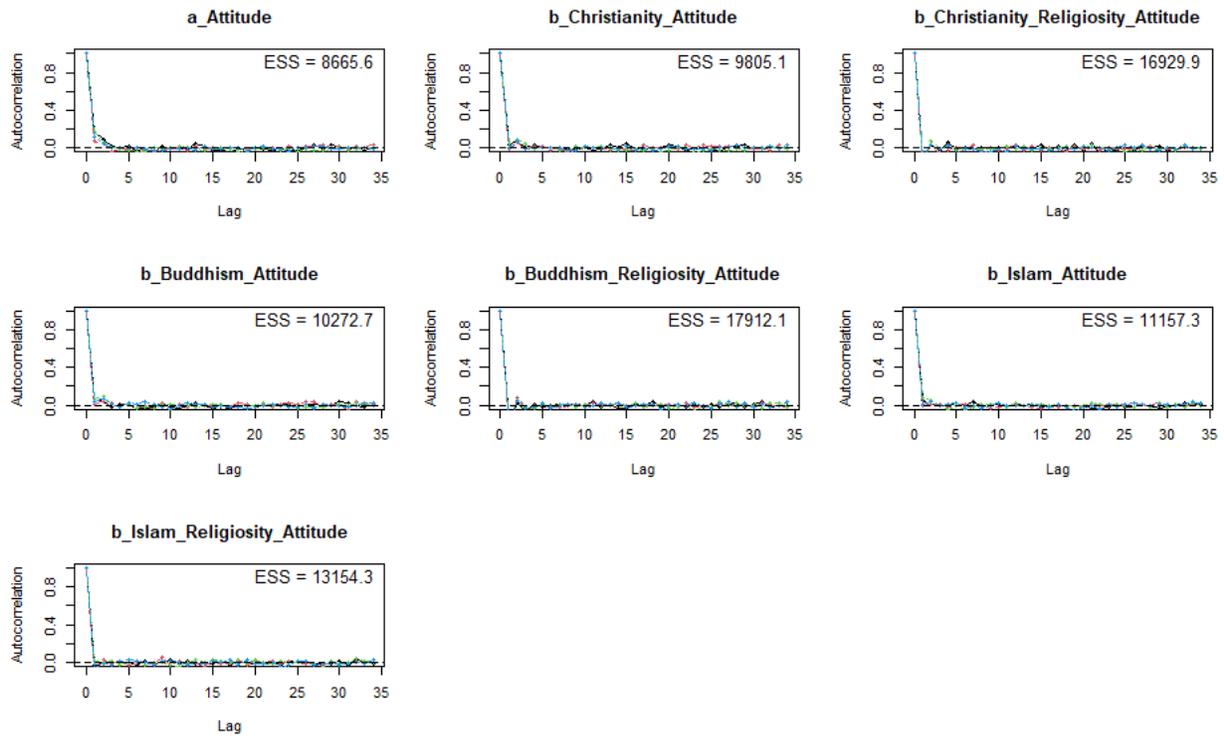


Figure S3.3: ACF diagnostic for model 3

Posterior results
Interval distribution

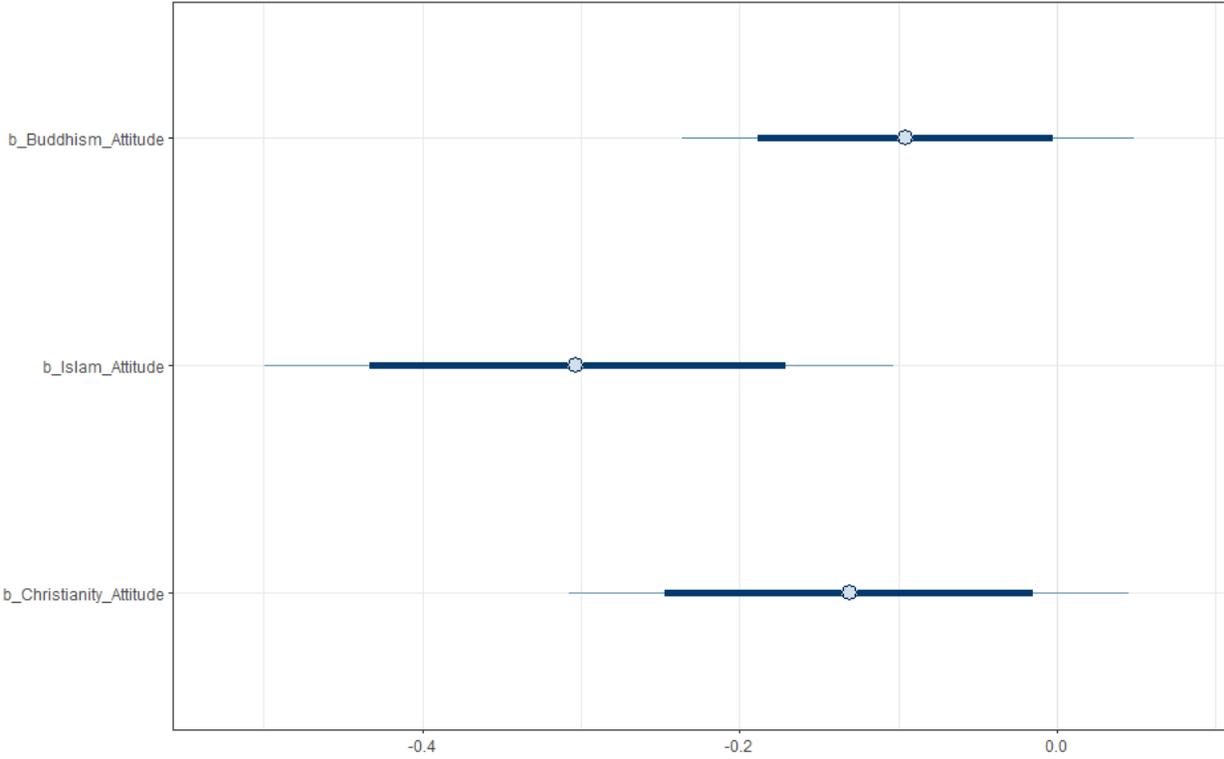


Figure S3.4: Model 3's posterior interval distribution for religious variables.

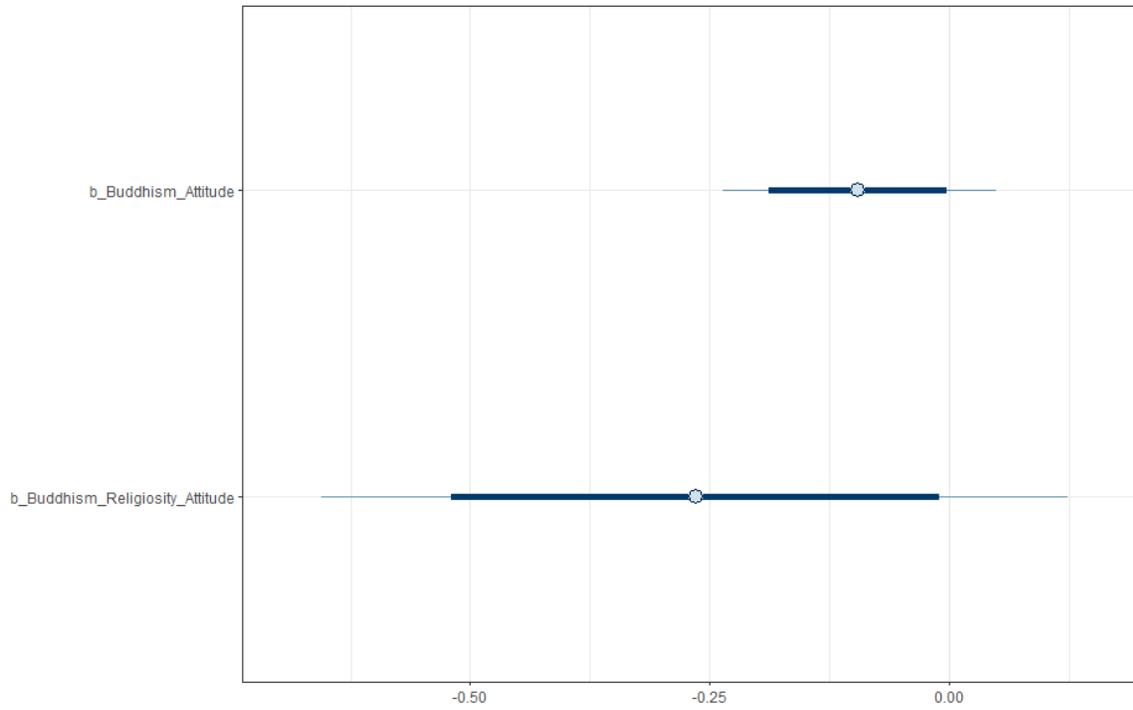


Figure S3.5: Model 3's posterior interval distribution for the interaction between the Buddhism and Religiosity variables.

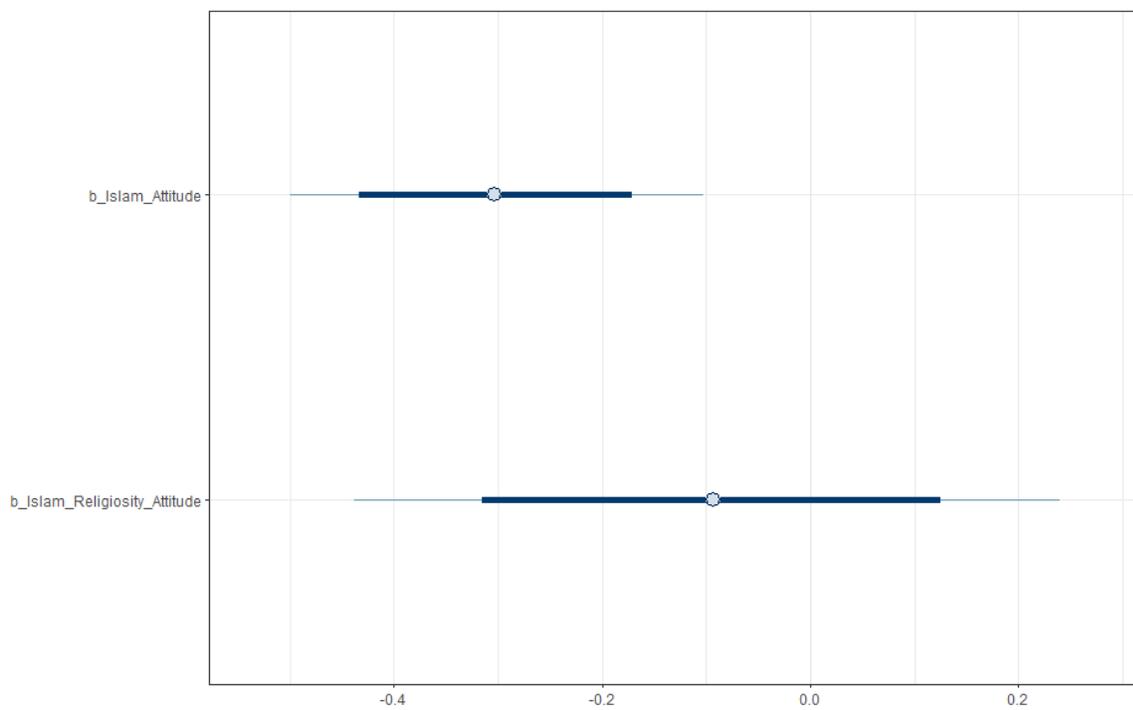


Figure S3.6: Model 3's posterior interval distribution for the interaction between the Islam and Religiosity variables.

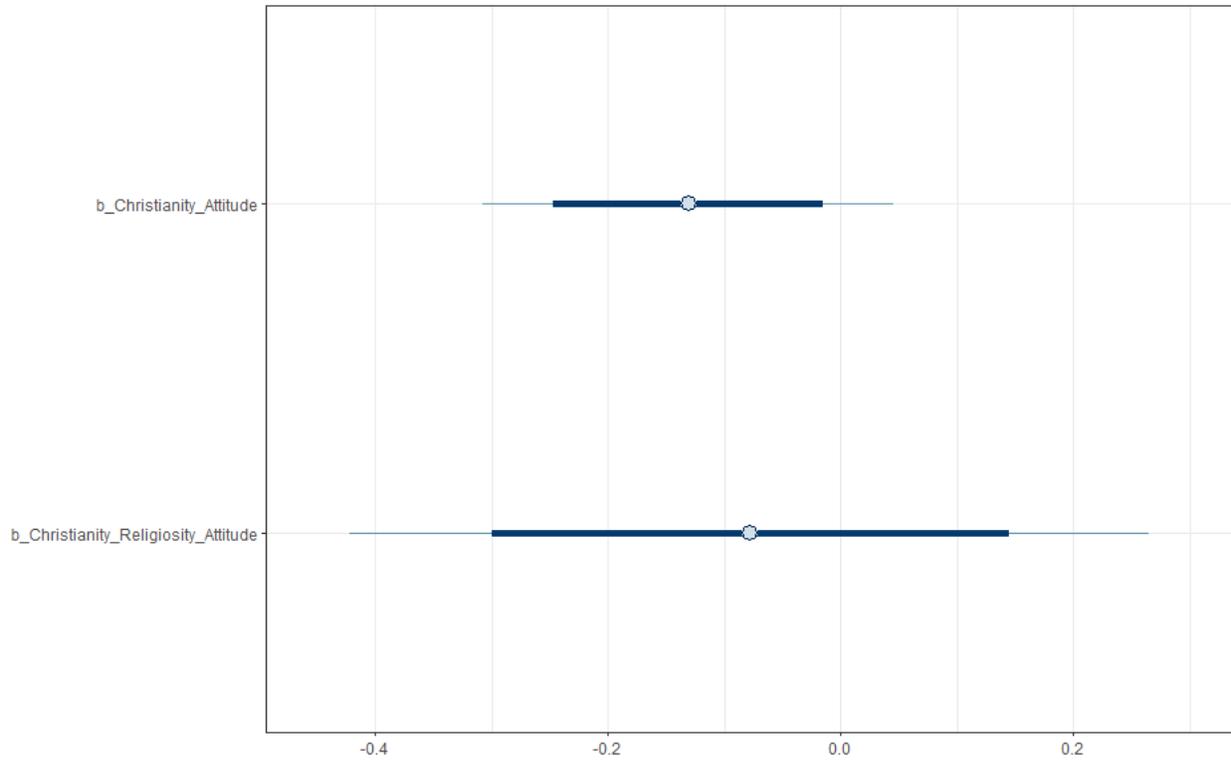


Figure S3.7: Model 3's posterior interval distribution for the interaction between the Christianity and Religiosity variables.

Density distribution

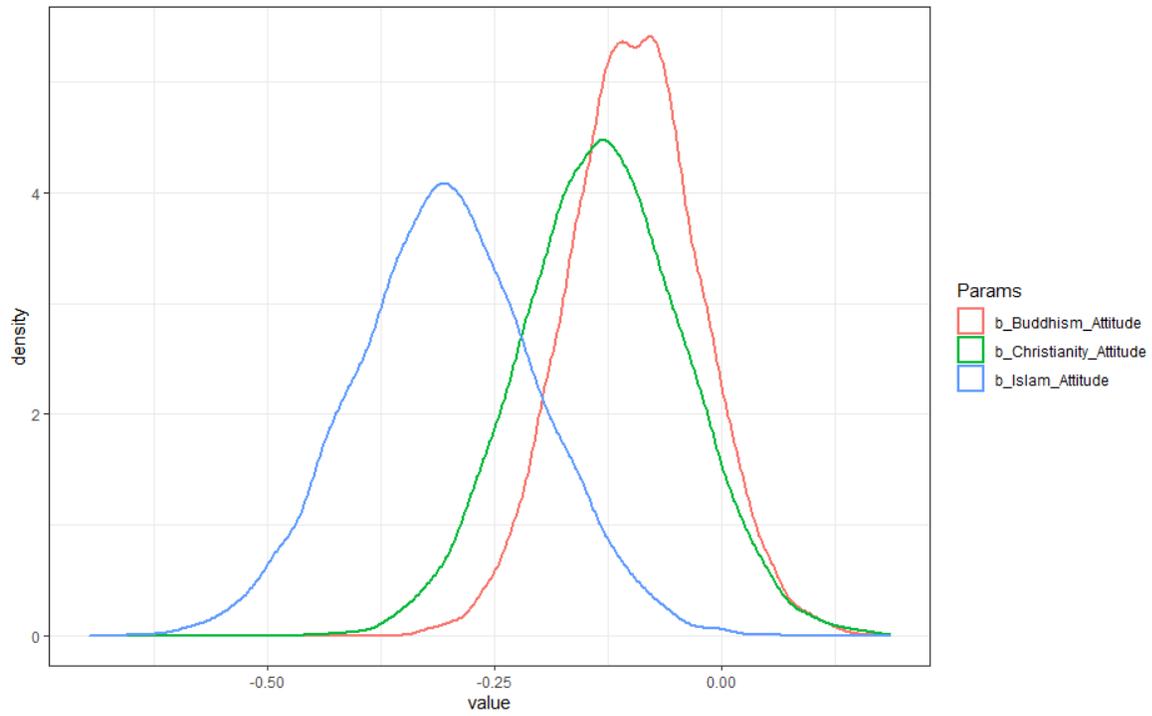


Figure S3.8: Model 3's posterior density distribution chart for the Religion variable.

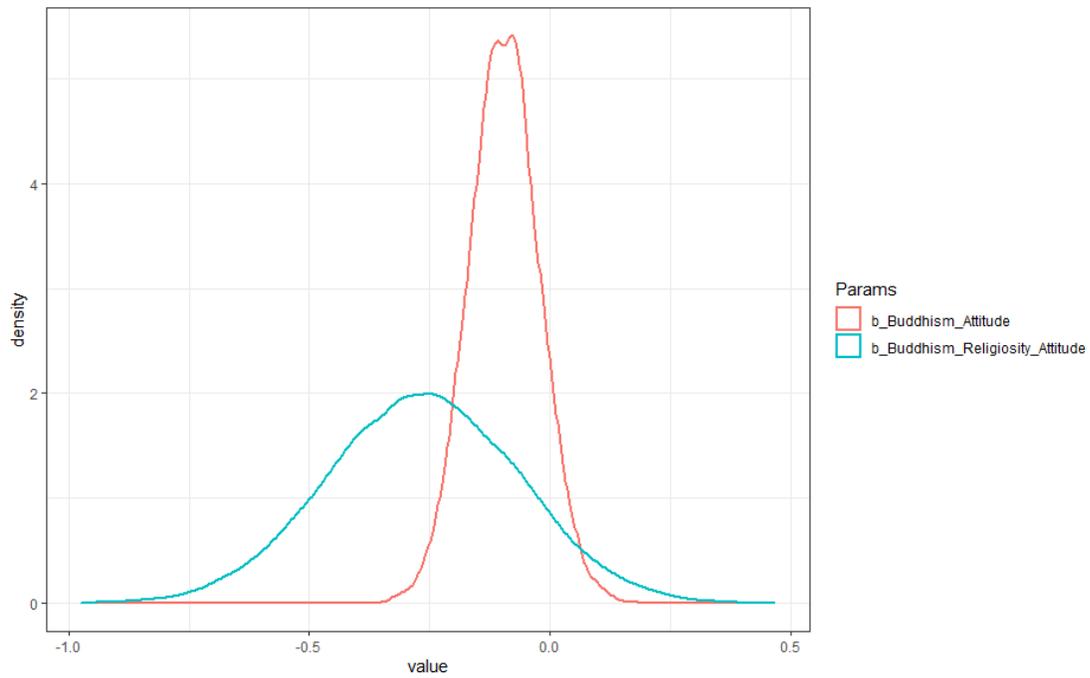


Figure S3.9: Model 3's posterior density distribution chart the interaction between the Buddhism and Religiosity variables.

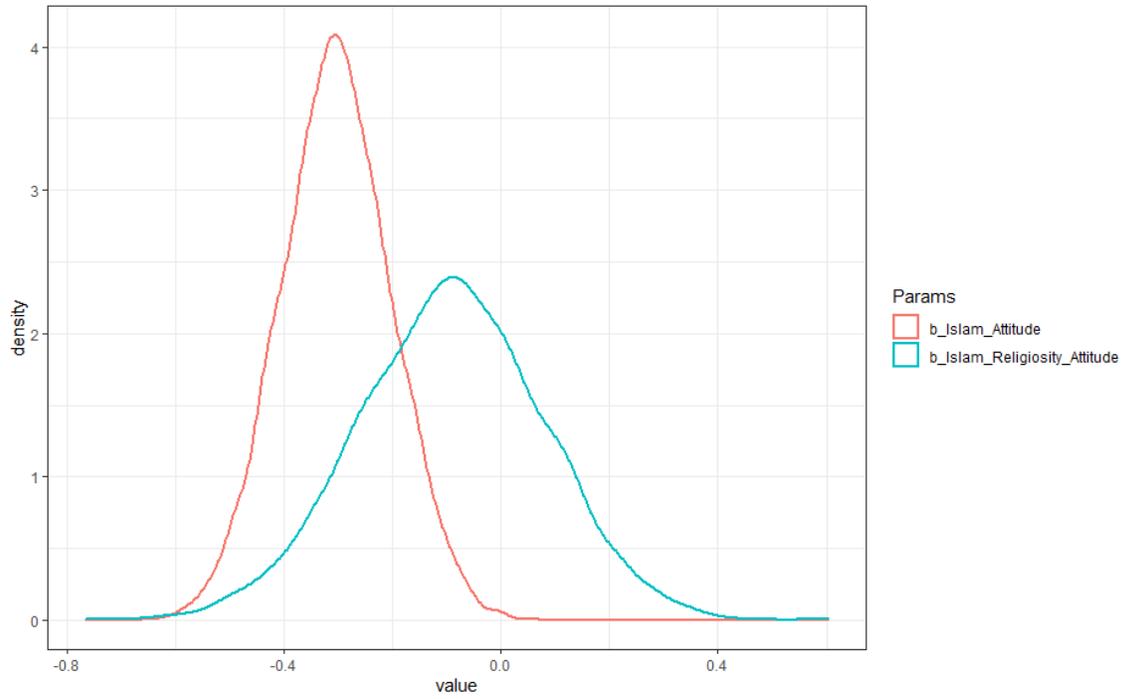


Figure S3.10: Model 3's posterior density distribution chart for the interaction between the Islam and Religiosity variables.

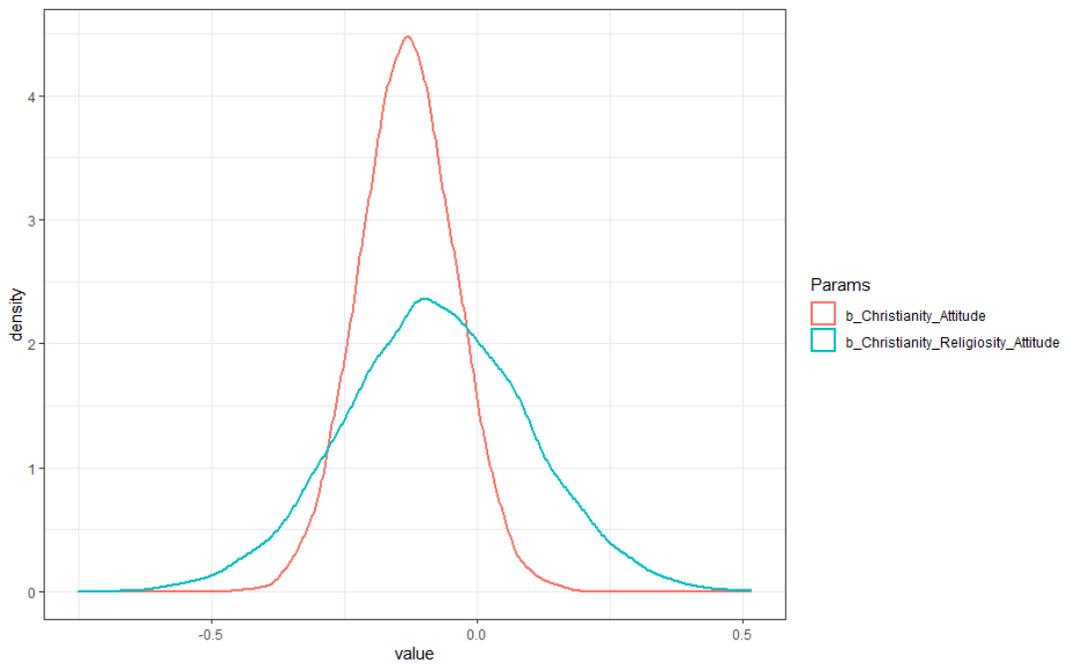


Figure S3.11: Model 3's posterior density distribution chart for the interaction between the Christianity and Religiosity variables.

Density distribution with HPDI

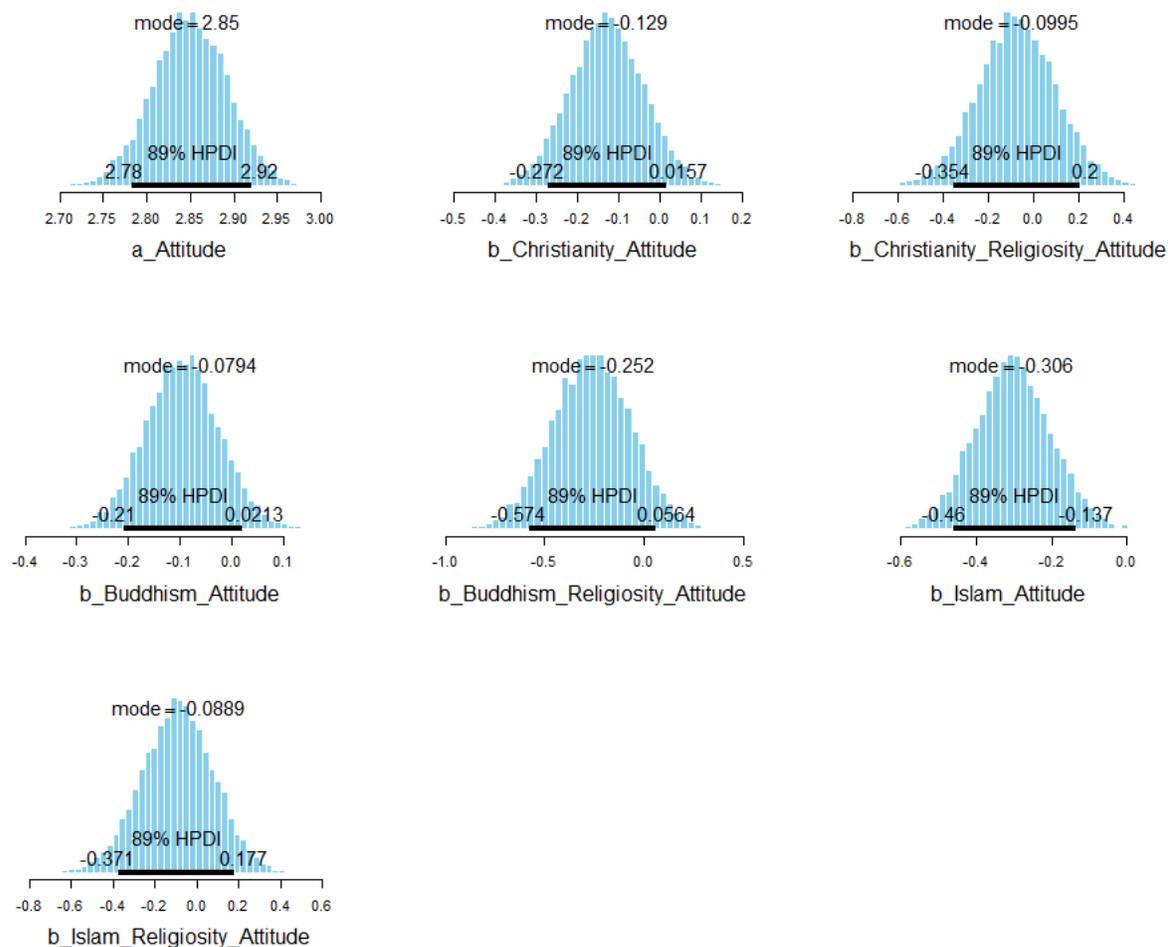


Figure S3.12: Model 3's density distribution with HDPI for the interaction between the Christianity and Religiosity variables.

Model Fit Diagnostic

Loo test

computed from 12000 by 748 log-likelihood matrix

```
Estimate SE
elpd_loo -872.0 18.8
p_loo 7.9 0.6
looic 1744.0 37.5
```

Monte carlo SE of elpd_loo is 0.0.

All Pareto k estimates are good (k < 0.5).
see help('pareto-k-diagnostic') for details.

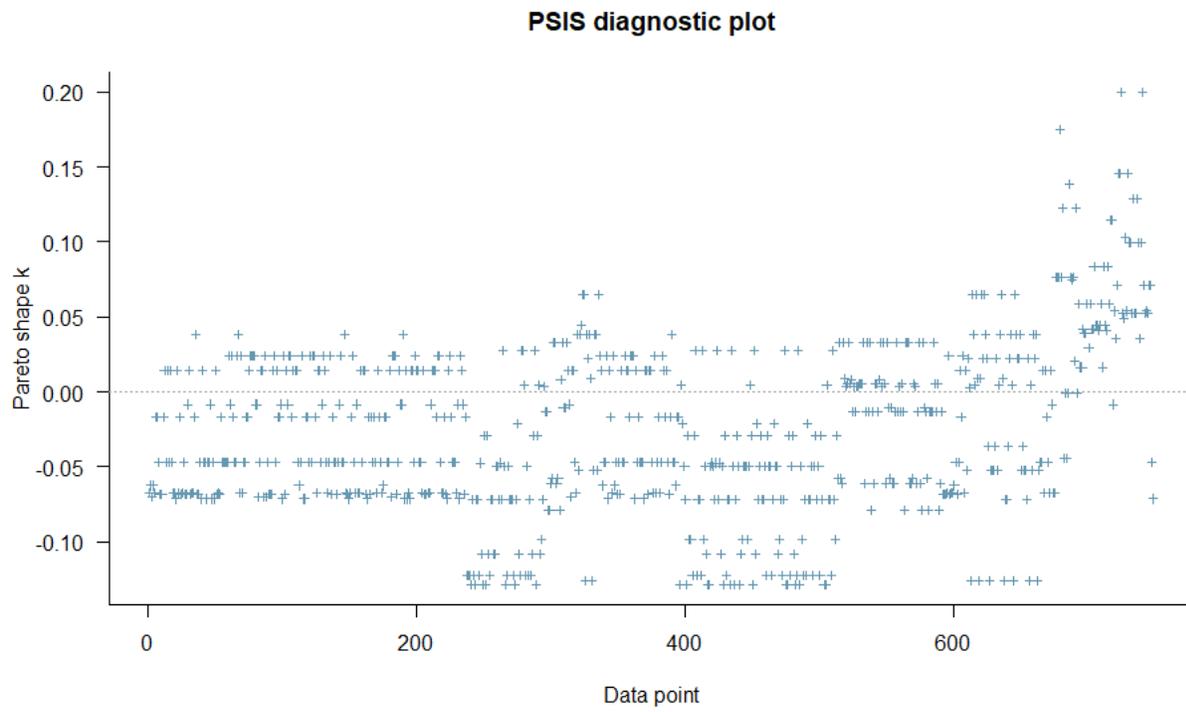


Figure S3.13: PSIS diagnostic plot for model 3

Marginal predictive distribution

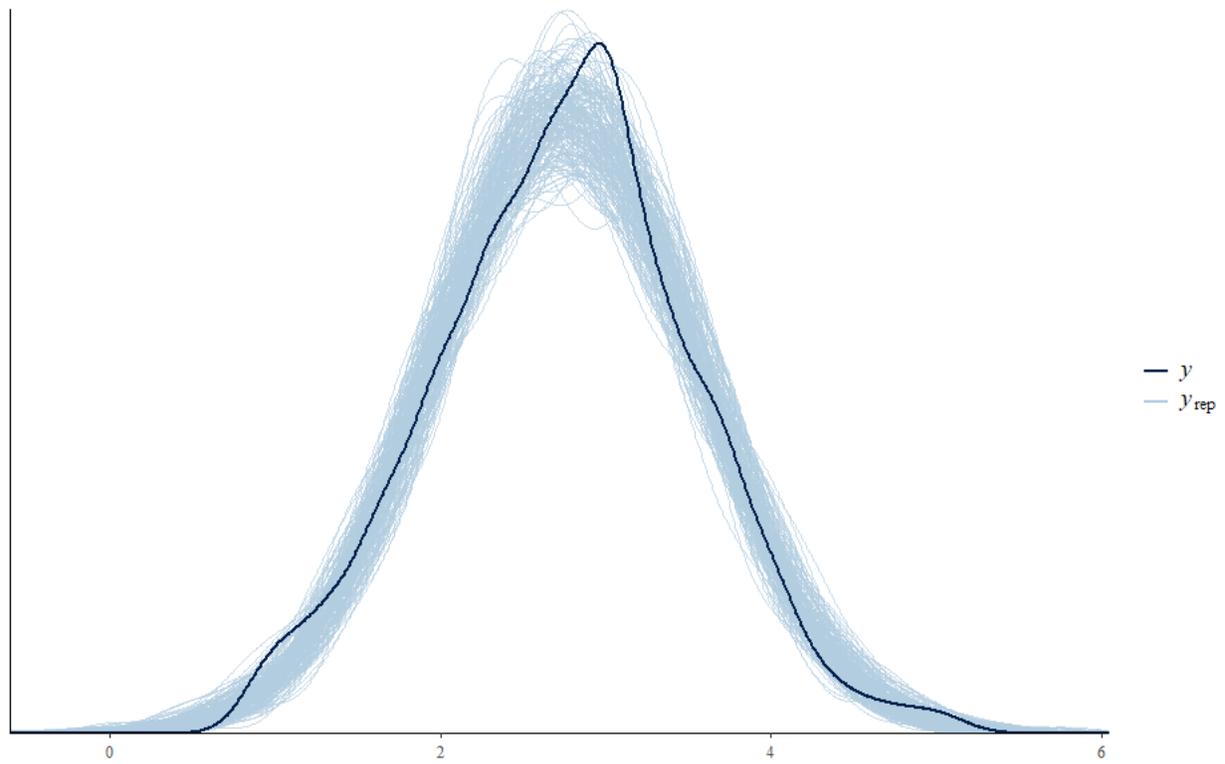


Figure S3.14: Marginal predictive distribution for model 3.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-872.0	18.8
p_waic	7.9	0.6
waic	1743.9	37.5

Model 4

Equation:

$$\text{Attitude} \sim \text{Income} + \text{SchoolYear} + \text{Sex} + \text{Major} + \text{Christianity} + \text{Islam} + \text{Buddhism} \\ + \text{Christianity_Religiosity} + \text{Islam_Religiosity} + \text{Buddhism_Religiosity}$$

Where

- *Attitude* is attitude towards emotional AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);
- *Religiosity* is the level of respondent's religiosity (ordinal/continuous variable);
- *Buddhism_Religiosity* is interaction between *Buddhism* and *Religiosity* so that $\text{Buddhism_Religiosity} = \text{Buddhism} * \text{Religiosity}$ (continuous variable);
- *Christianity_Religiosity* is interaction between *Christianity* and *Religiosity* so that $\text{Christianity_Religiosity} = \text{Christianity} * \text{Religiosity}$ (continuous variable);
- *Islam_Religiosity* is interaction between *Islam* and *Religiosity* so that $\text{Islam_Religiosity} = \text{Islam} * \text{Religiosity}$ (continuous variable).

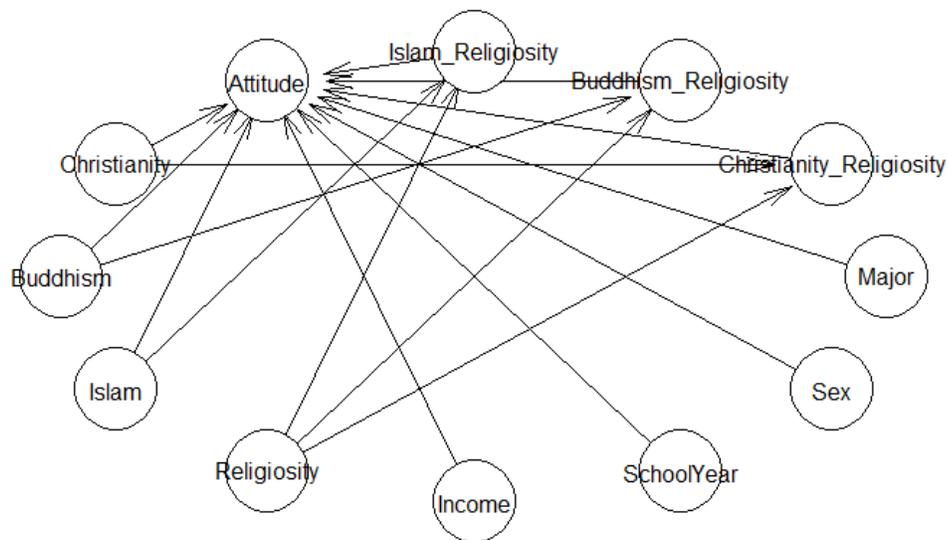


Figure S4.0: Visualization of model 4.

Table S4.1: Posterior estimate of model 4

	Mean	SD	n_eff	Rhat
a_Attitude	2.10	0.17	7985	1
b_Christianity_Attitude	-0.15	0.09	11512	1
b_Christianity_Religiosity_Attitude	-0.03	0.17	13225	1
b_Buddhism_Attitude	-0.09	0.07	12126	1
b_Buddhism_Religiosity_Attitude	-0.25	0.19	15952	1
b_Islam_Attitude	-0.27	0.10	10155	1
b_Islam_Religiosity_Attitude	-0.14	0.17	12374	1
b_Income_Attitude	0.16	0.06	9652	1
b_SchoolYear_Attitude	0.05	0.03	12855	1
b_Sex_Attitude	0.15	0.06	13012	1
b_Major_Attitude	0.15	0.06	15121	1

Monte Carlo SE of elpd_loo is 0.0.
 All Pareto k estimates are good ($k < 0.5$).

Posterior Diagnostics

Trace plot diagnostic

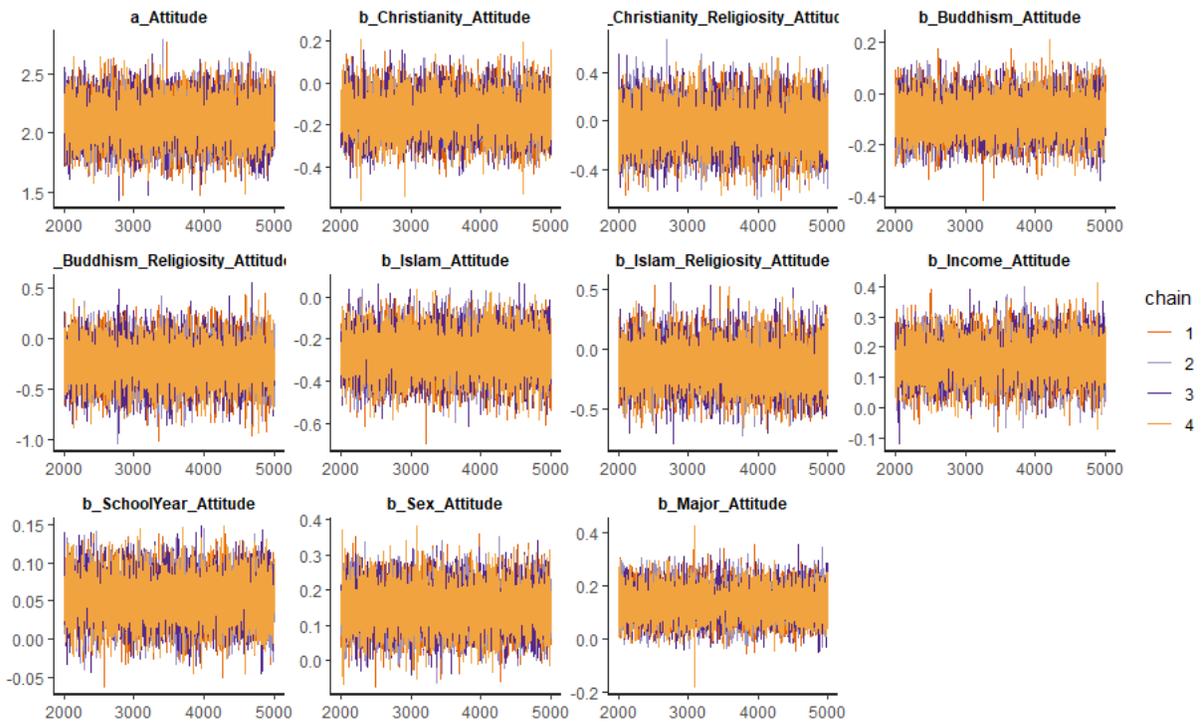


Figure S4.1: Trace plot diagnostic for model 4.

Gelman diagnostic

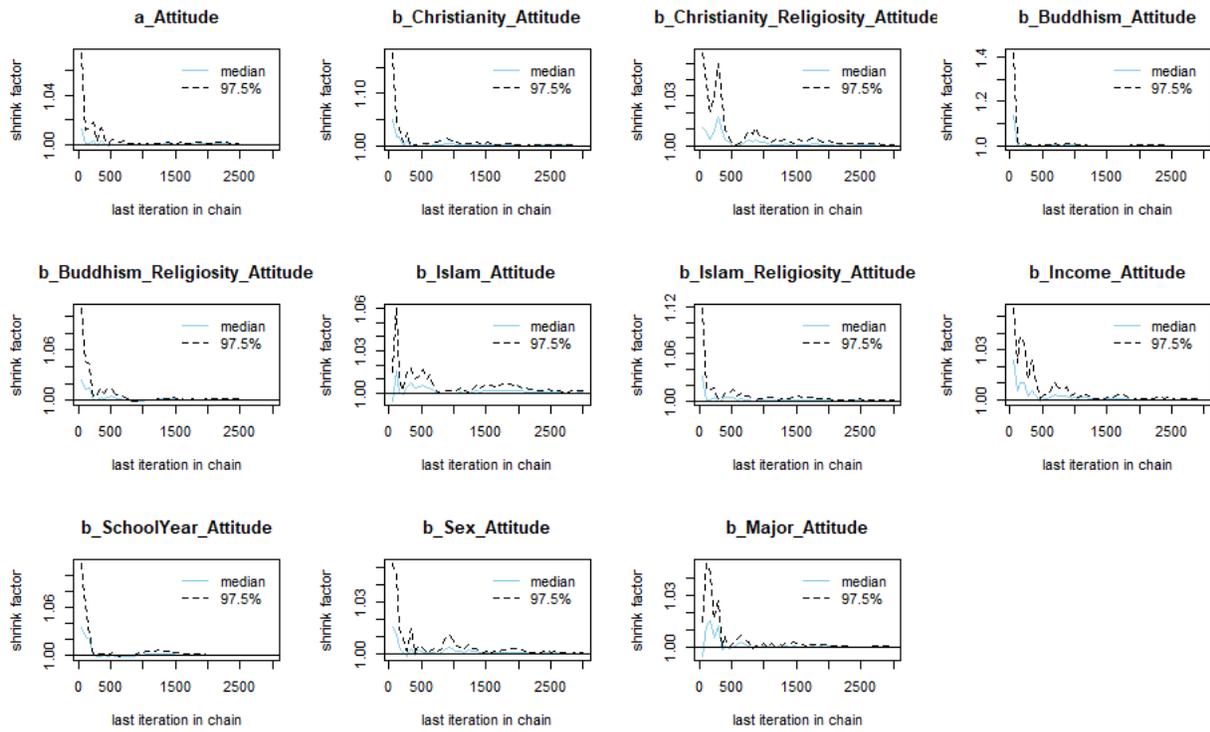


Figure S4.2: Gelman diagnostic for model 4

ACF diagnostic

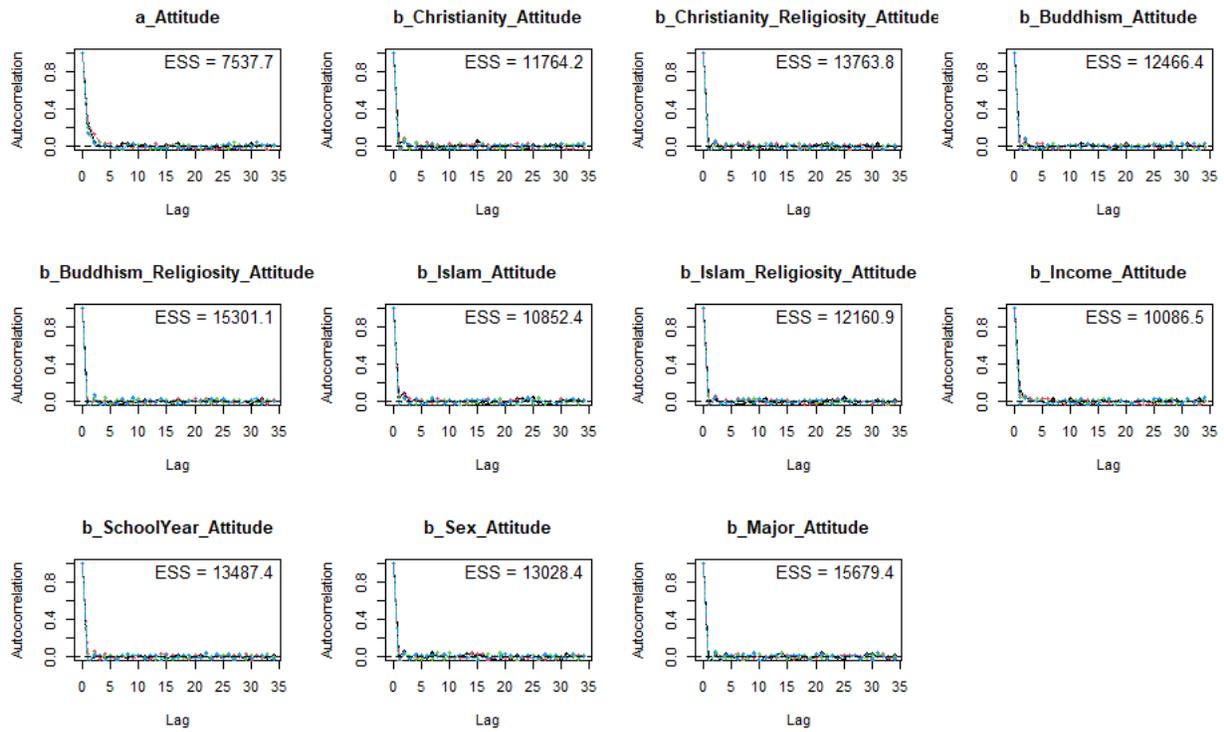


Figure S4.3: ACF diagnostic for model 4.

Posterior results
Interval distribution

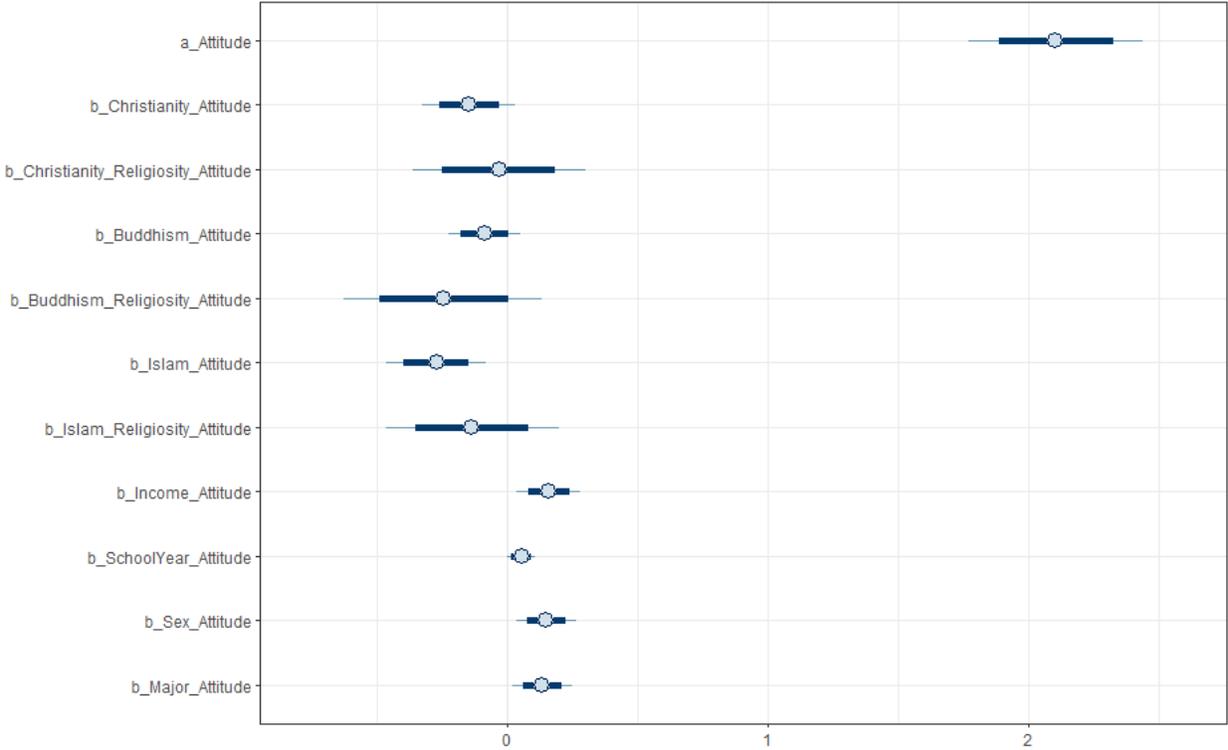


Figure S4.4: Model 4's posterior interval distribution for all explanatory variables.

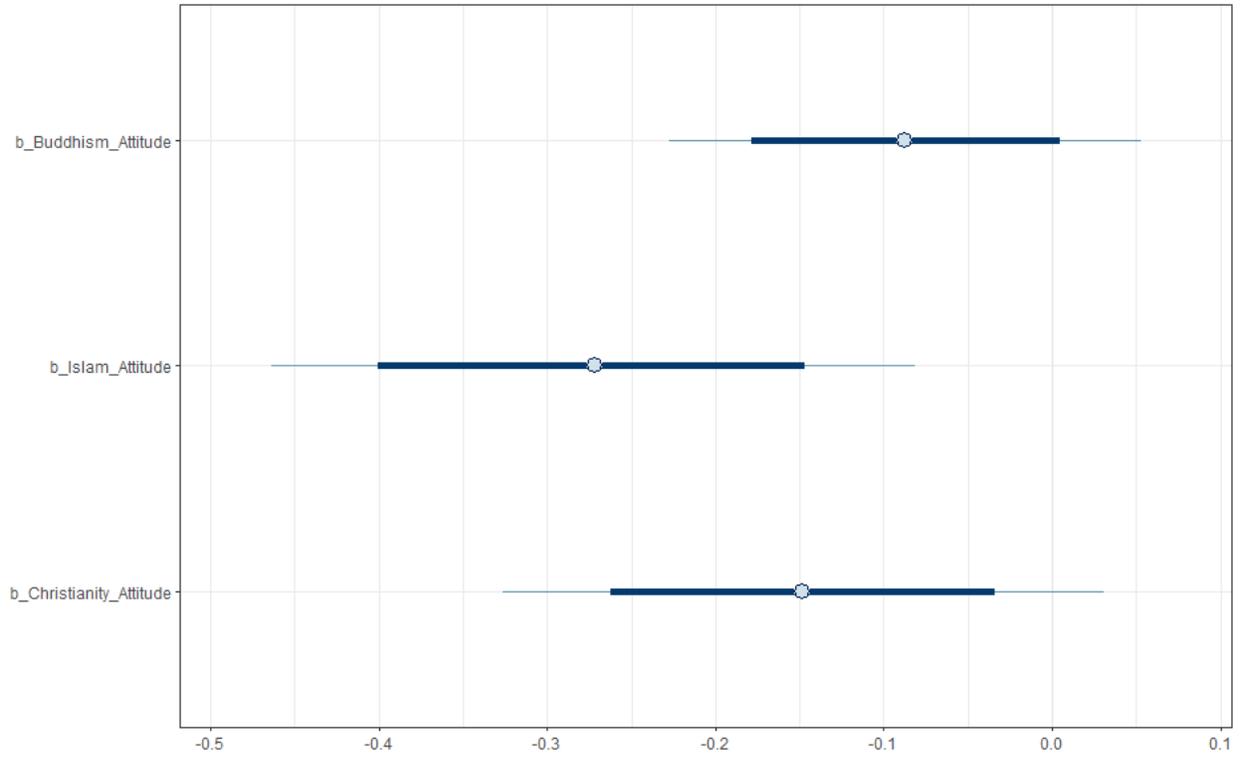


Figure S4.5: Model 4's posterior interval distribution for religious variables.

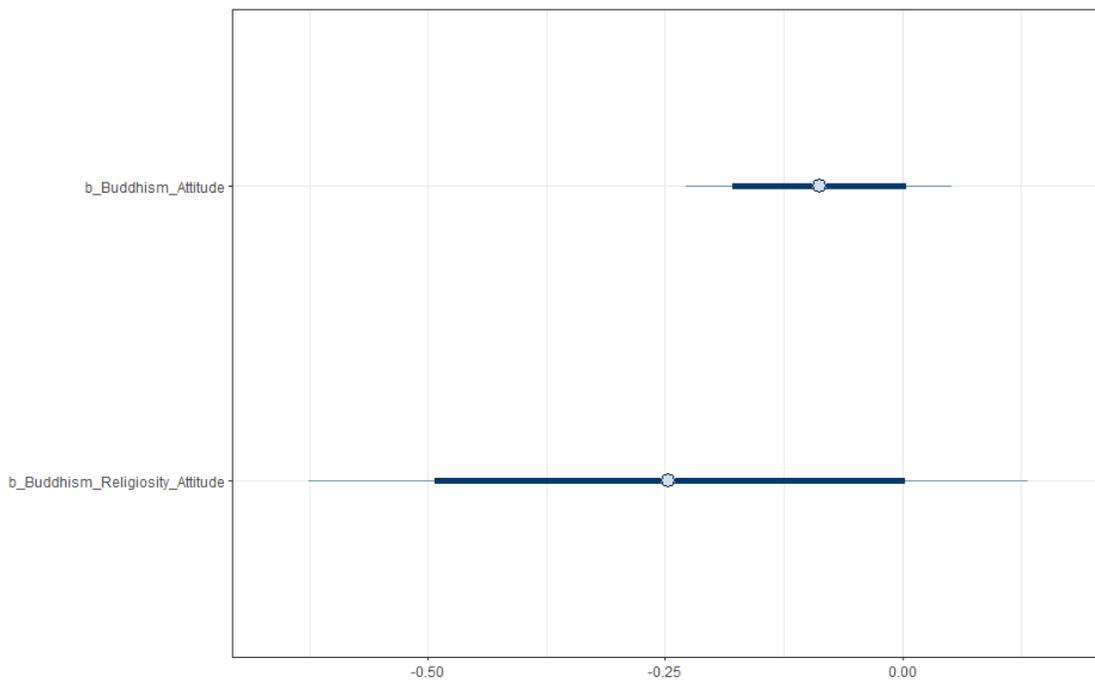


Figure S4.6: Model 4's posterior interval distribution for the interaction between the Buddhism and Religiosity variables.

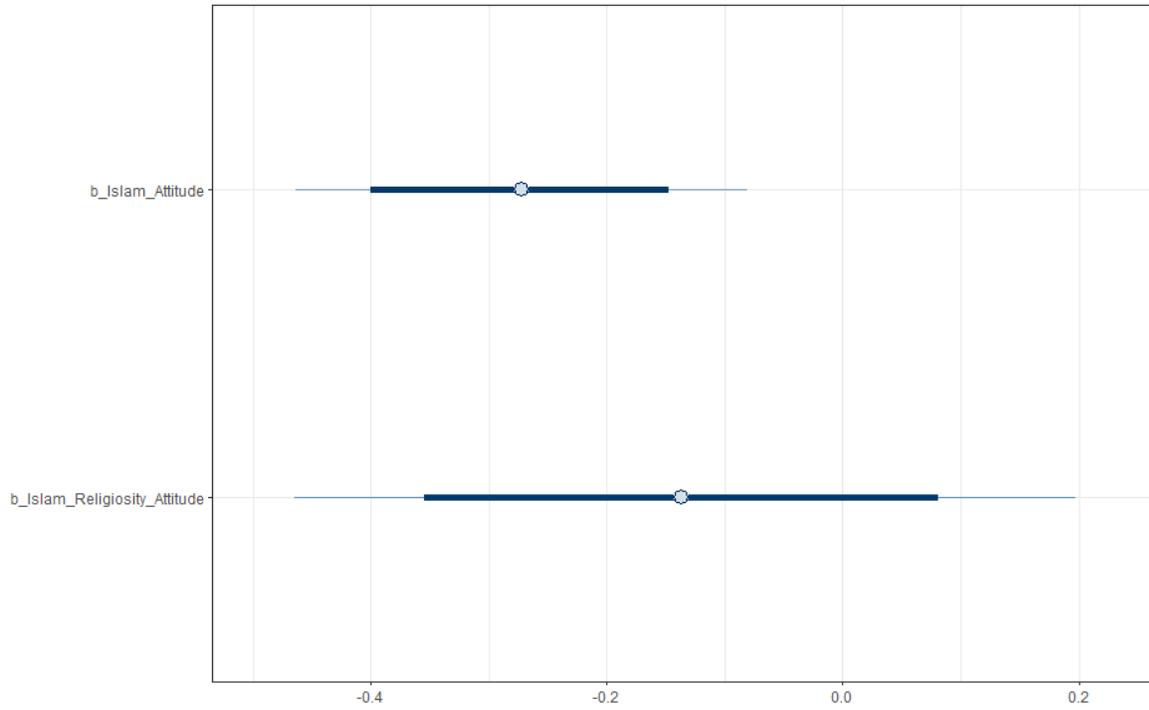


Figure S4.7: Model 4's posterior interval distribution for the interaction between the Islam and Religiosity variables.

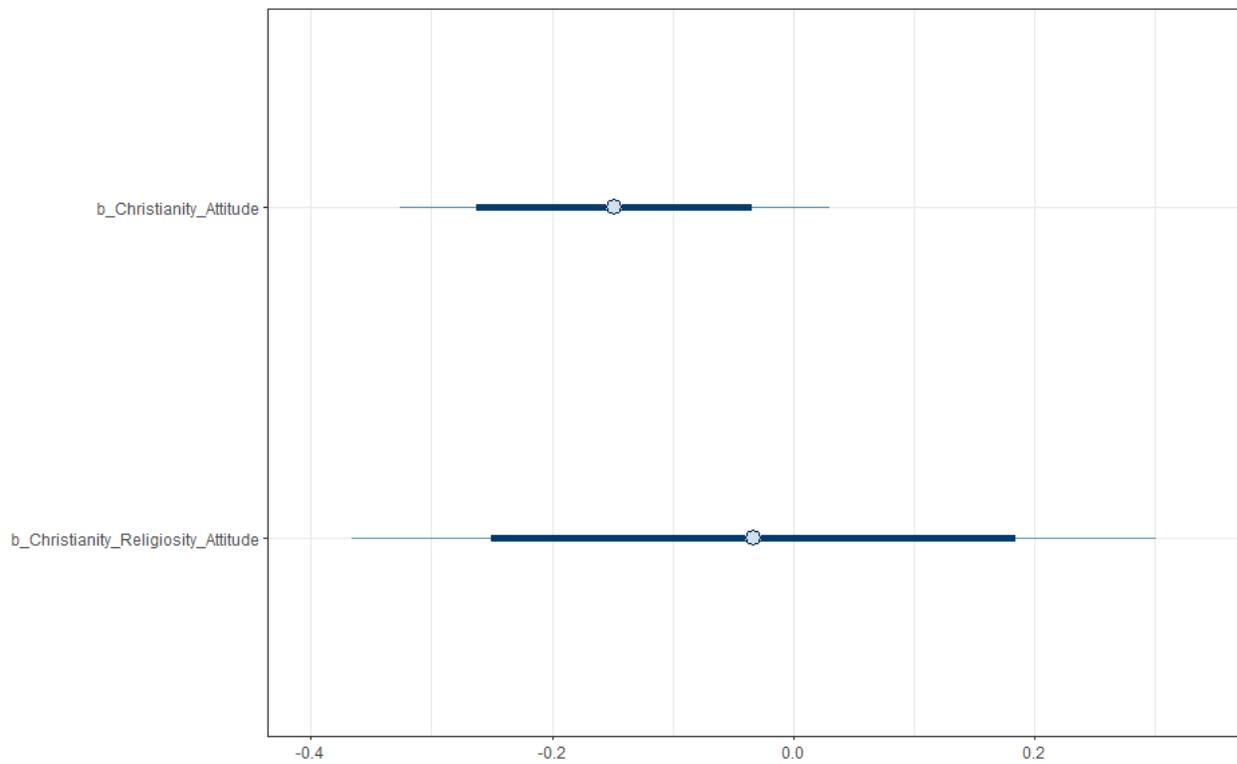


Figure S4.8: Model 4's posterior interval distribution for the interaction between the Christianity and Religiosity variables.

Density distribution

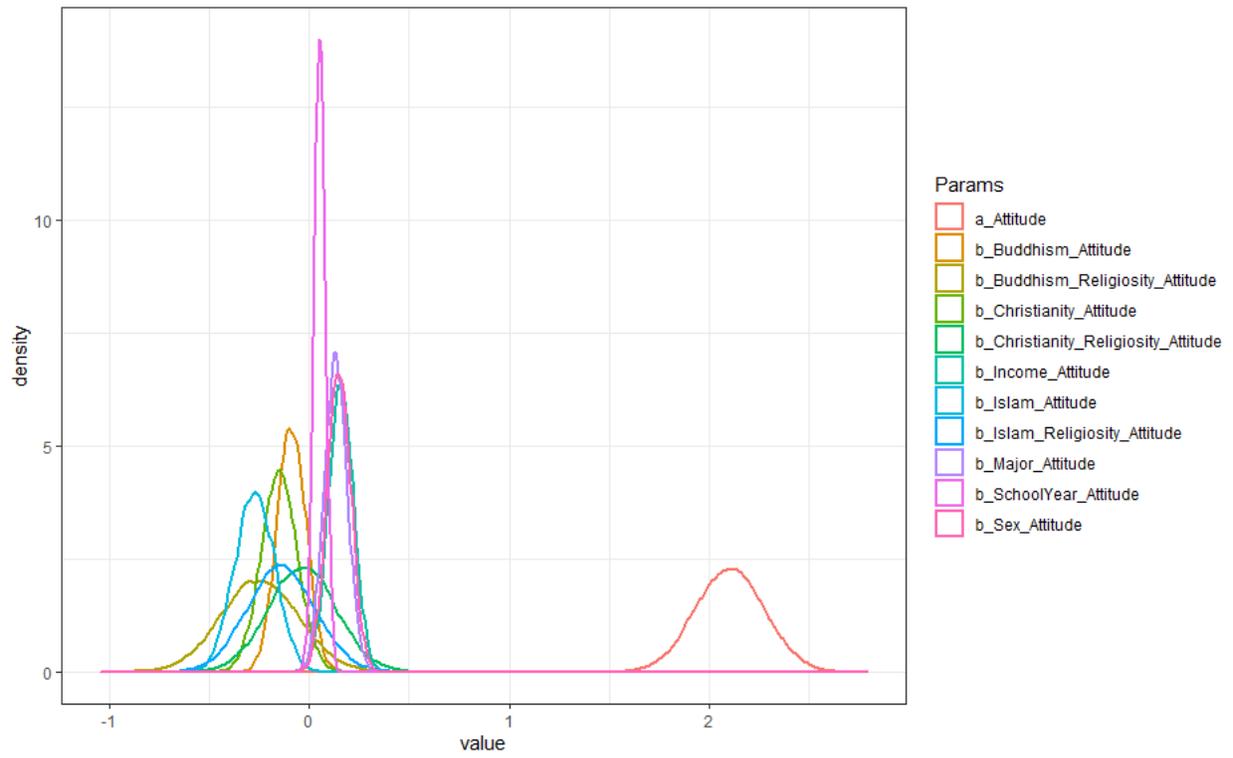


Figure S4.9: Model 4's density distribution for the all the explanatory variables.

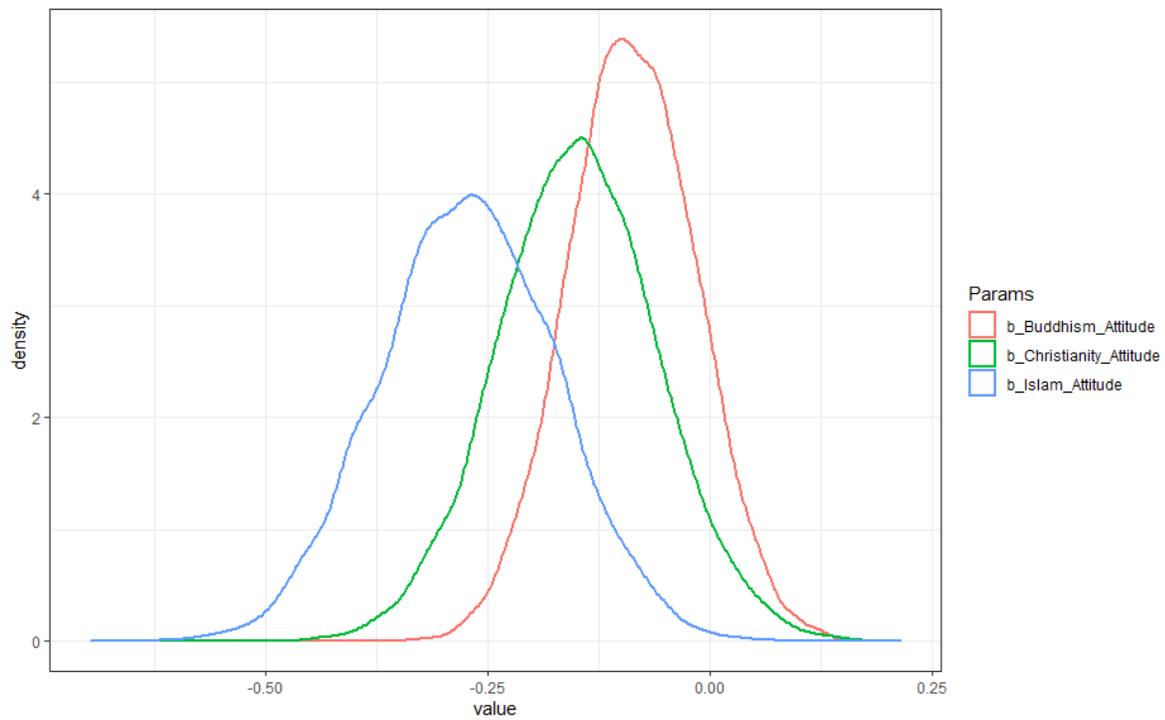


Figure S4.10: Model 4's posterior density distribution for the all the Religion variable.

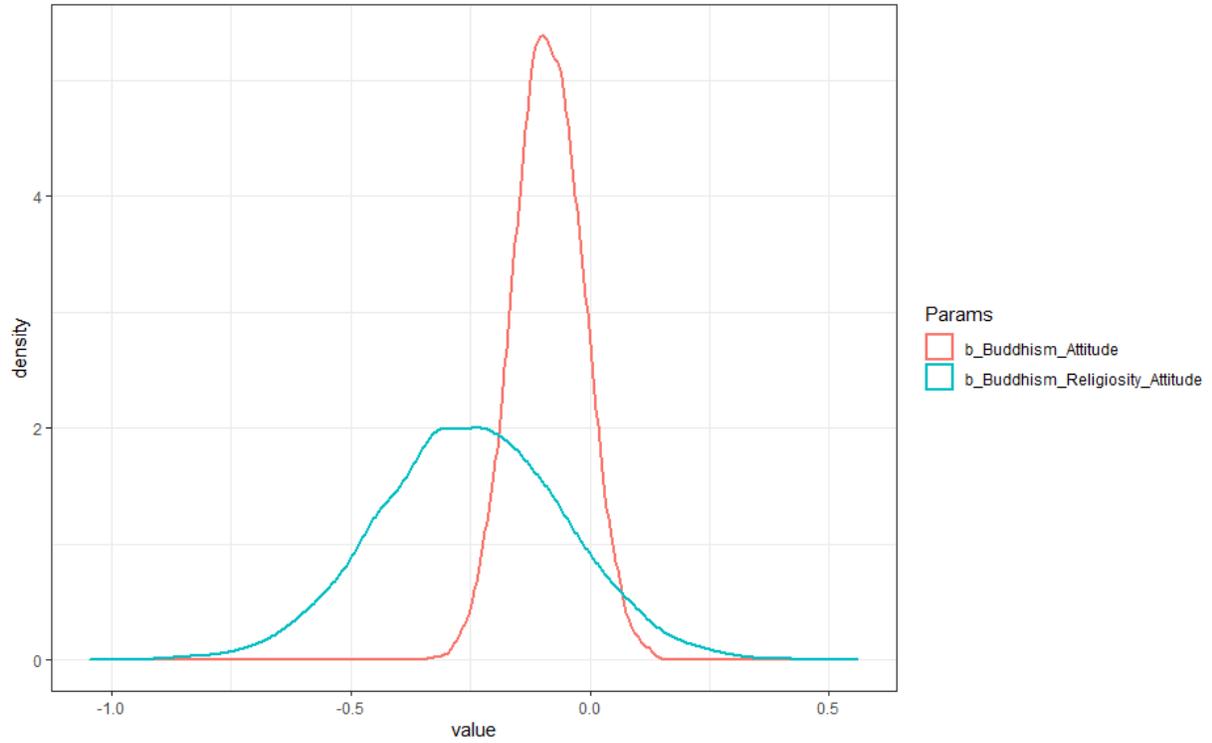


Figure S4.11: Model 4's posterior density distribution chart the interaction between the Buddhism and Religiosity variables.

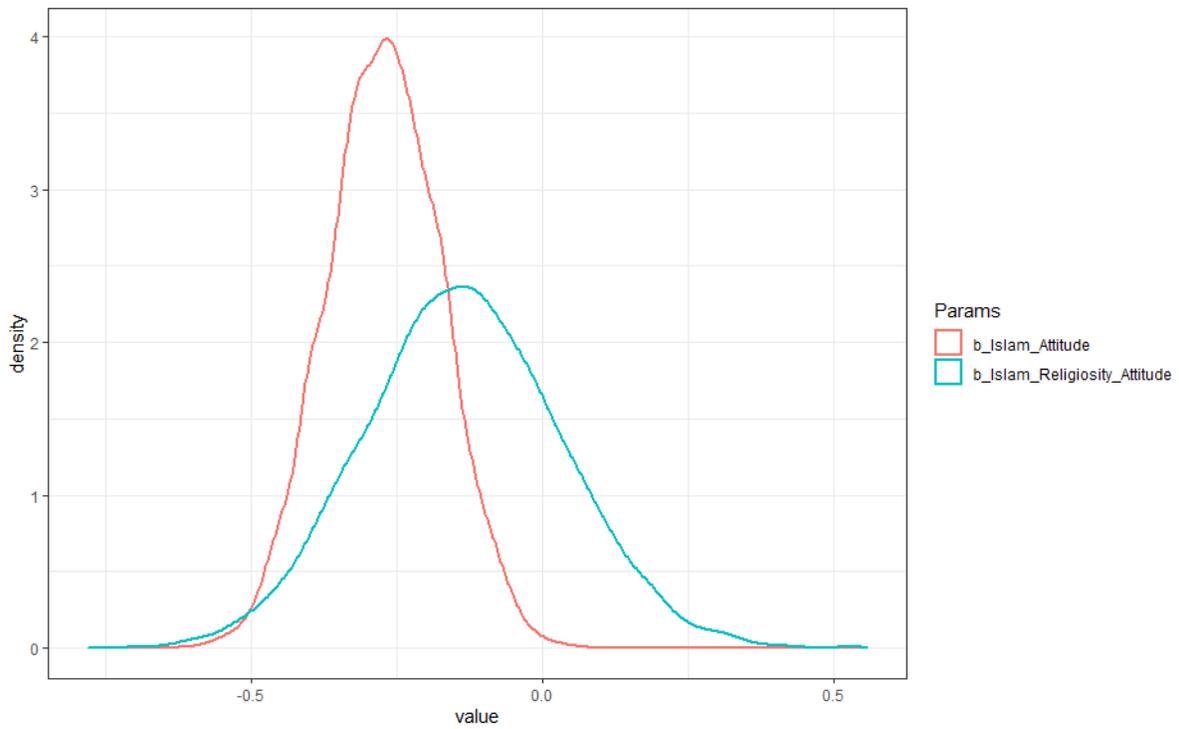


Figure S4.12: Model 4's posterior density distribution chart the interaction between the Islam and Religiosity variables.

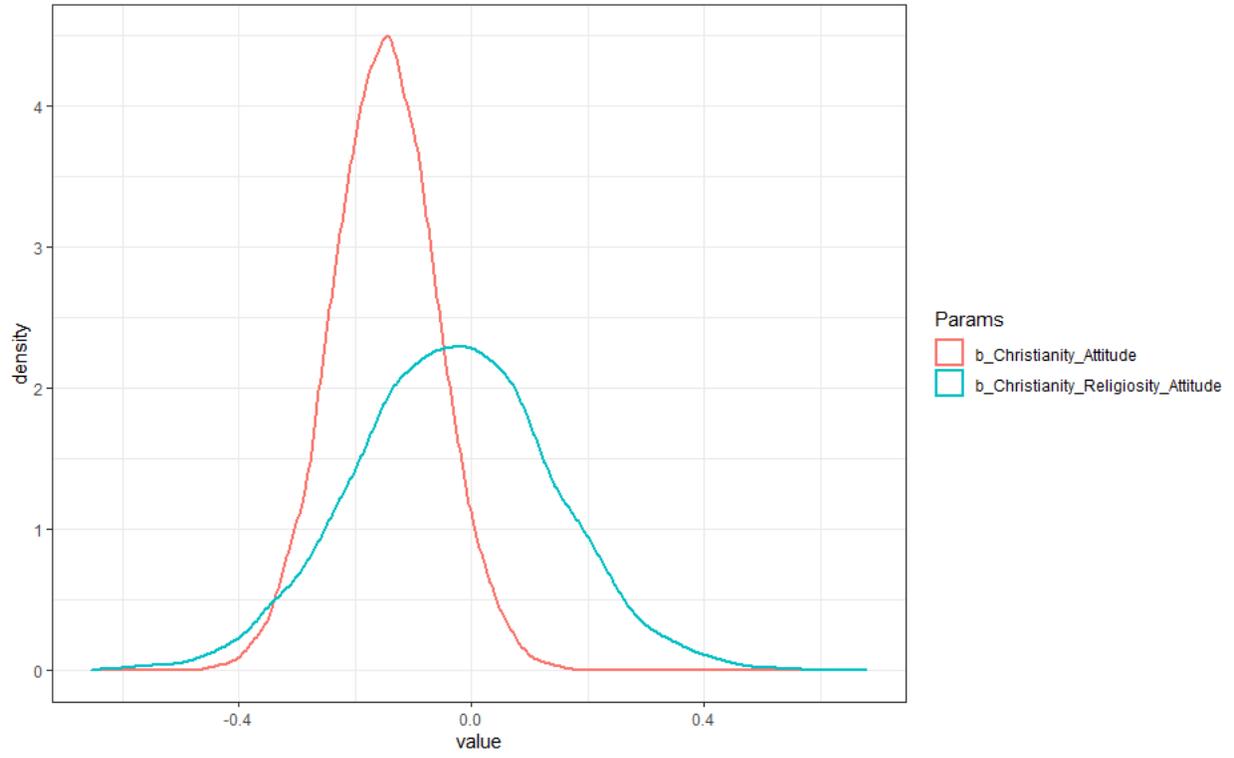


Figure S4.13: Model 4's posterior density distribution chart the interaction between the Christianity and Religiosity variables.

Density distribution with HPDI

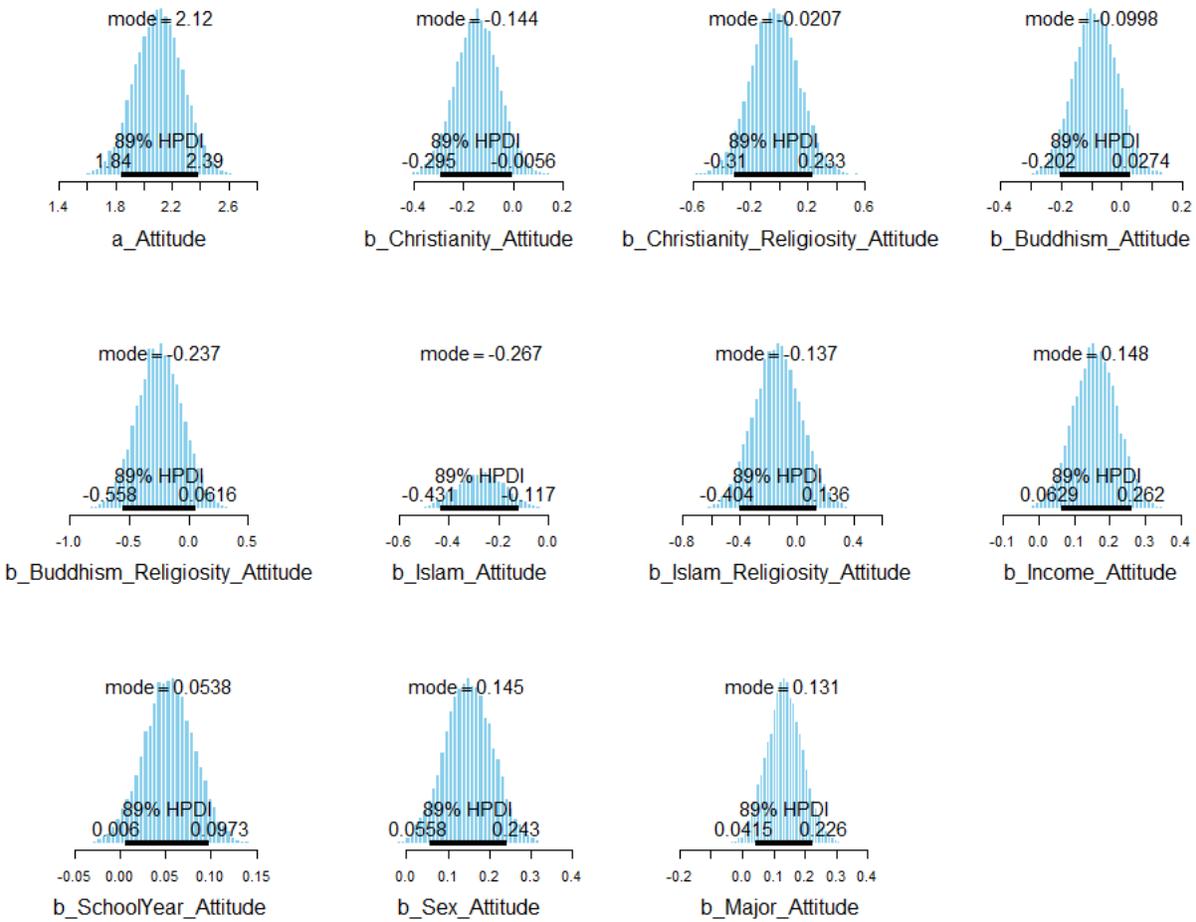


Figure S4.14: Model 4's density distribution with HDPI for all the explanatory variables.

Model Fit Diagnostic

Loo test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_loo	-862.6	18.9
p_loo	11.9	0.8
looic	1725.3	37.7

Monte Carlo SE of elpd_loo is 0.0.

All Pareto k estimates are good ($k < 0.5$).
see help('pareto-k-diagnostic') for details.

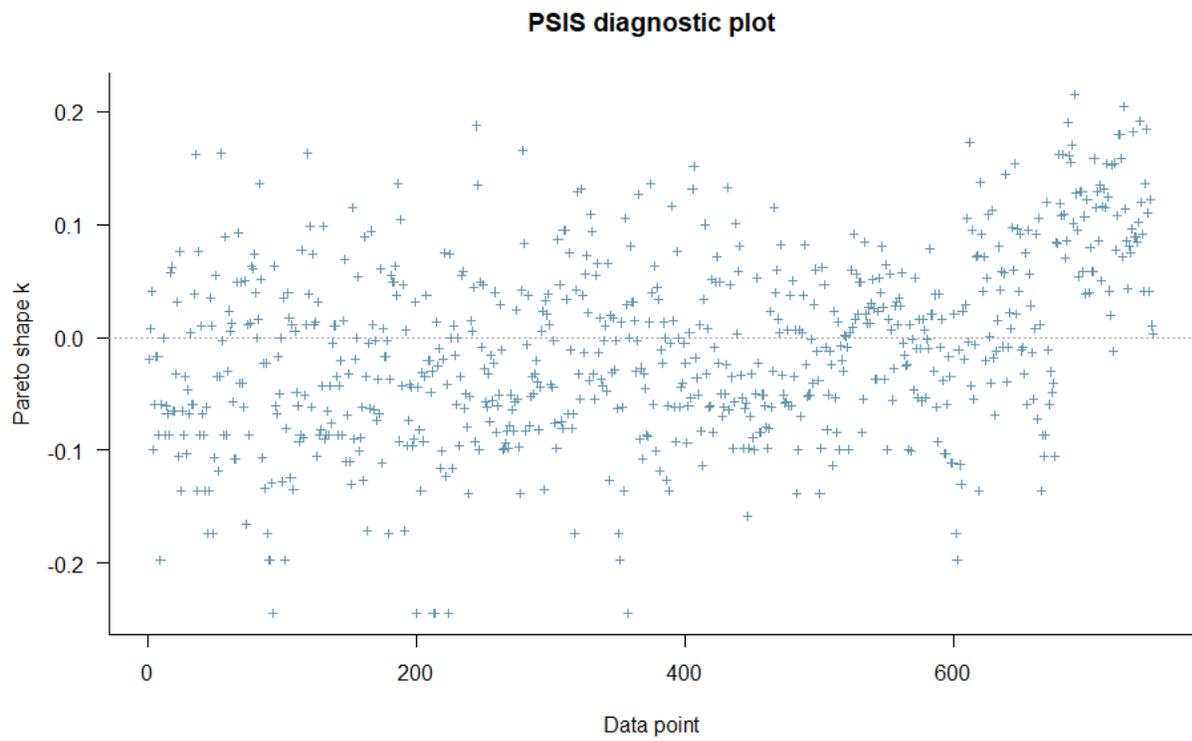


Figure S4.15: PSIS diagnostic plot for model 4.

Marginal predictive distribution

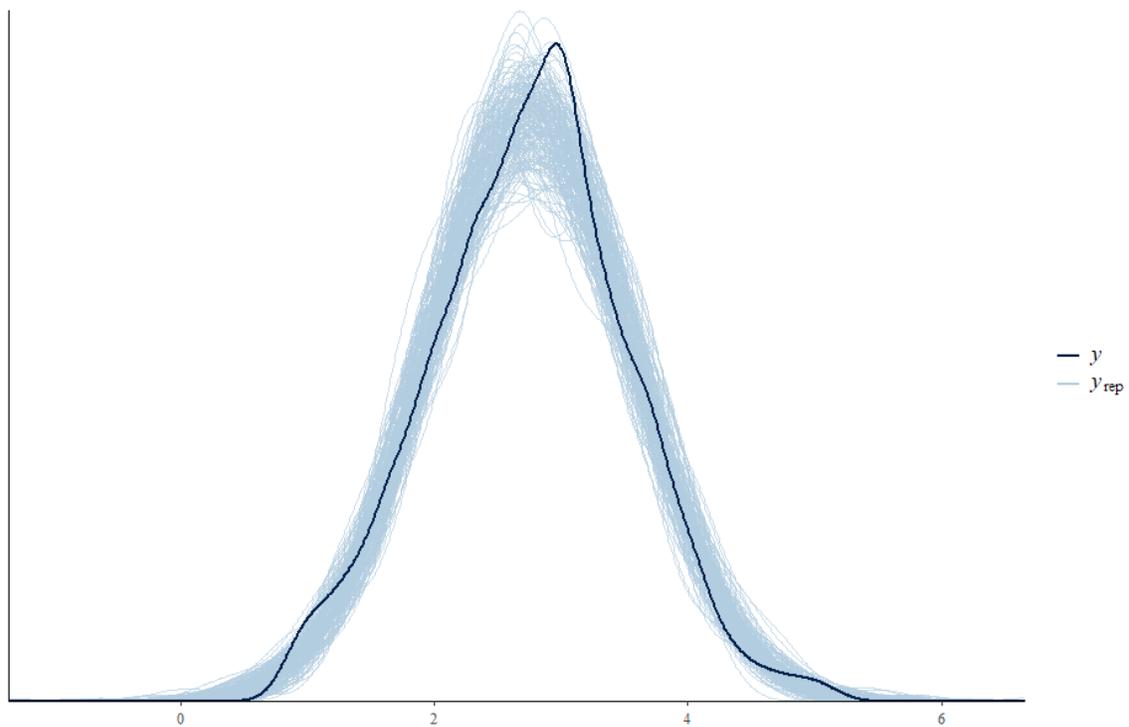


Figure S4.16: Marginal predictive distribution for model 4.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-862.6	18.9
p_waic	11.9	0.8
waic	1725.3	37.7

Model 5

Equation:

$$\text{Familiarity} \sim \text{Income} + \text{SchoolYear} + \text{Sex} + \text{Major}$$

Where

Where *Familiarity* is the self-perceived familiarity with AI (continuous variable), *Income* is self-perceived family income (ordinal/continuous variable), *SchoolYear* is the school year of the respondent (ordinal/continuous variable), *Sex* is the biological sex of the respondent (binary variable), and *Major* is the major curriculum of the respondent (binary variable). Priors of all parameters' distribution are set as default which is 'uninformative'.

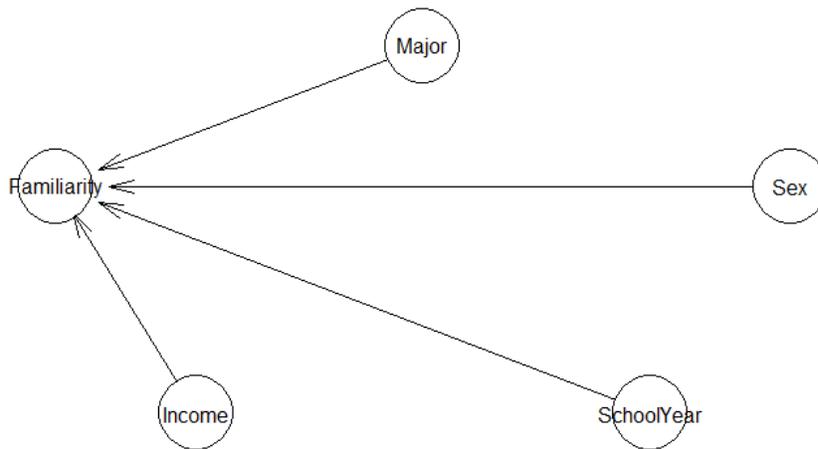


Figure S5.0: Visualization of model 5

Table S5.1: Posterior estimate of model 5

	Mean	SD	n_eff	Rhat
a_Familiarity	1.93	0.17	7852	1
b_Income_Familiarity	0.03	0.06	7156	1
b_SchoolYear_Familiarity	0.01	0.03	10521	1
b_Sex_Familiarity	0.25	0.06	10925	1
b_Major_Familiarity	0.10	0.06	12852	1

Monte Carlo SE of elpd_loo is 0.0.
All Pareto k estimates are good (k < 0.5).

Posterior Diagnostics

Trace plot diagnostic

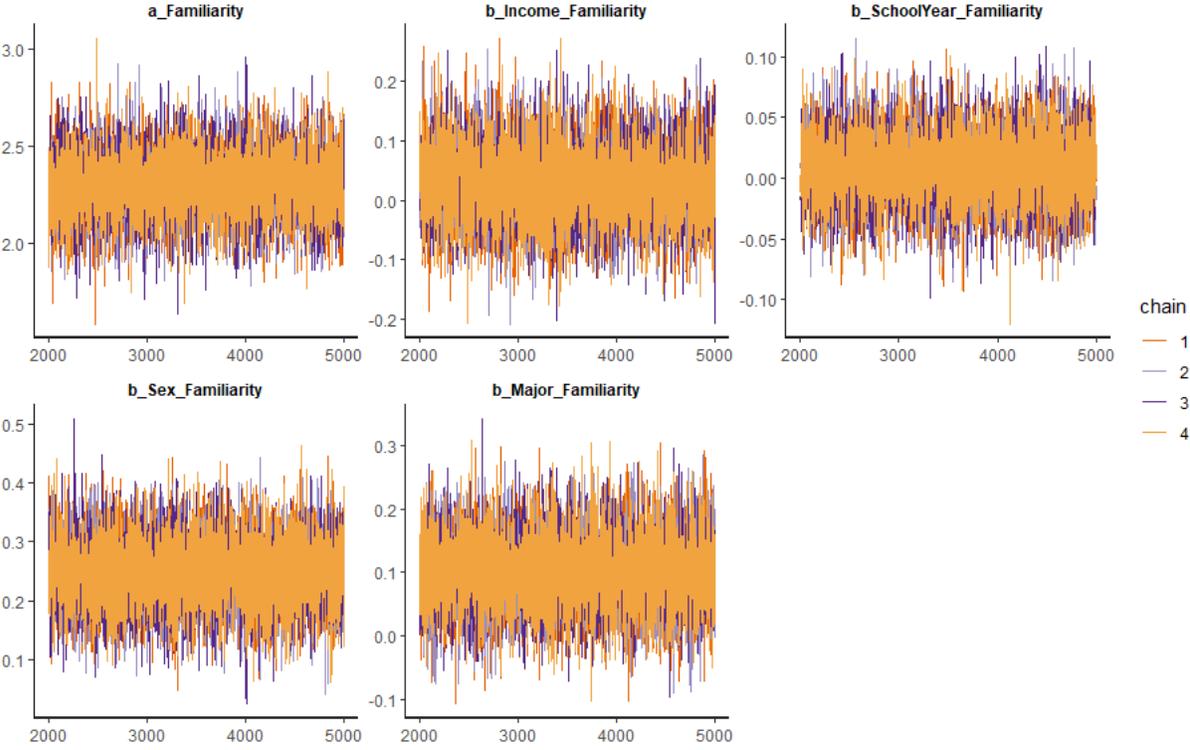


Figure S5.1: Trace plot diagnostic for model 5.

Gelman diagnostic

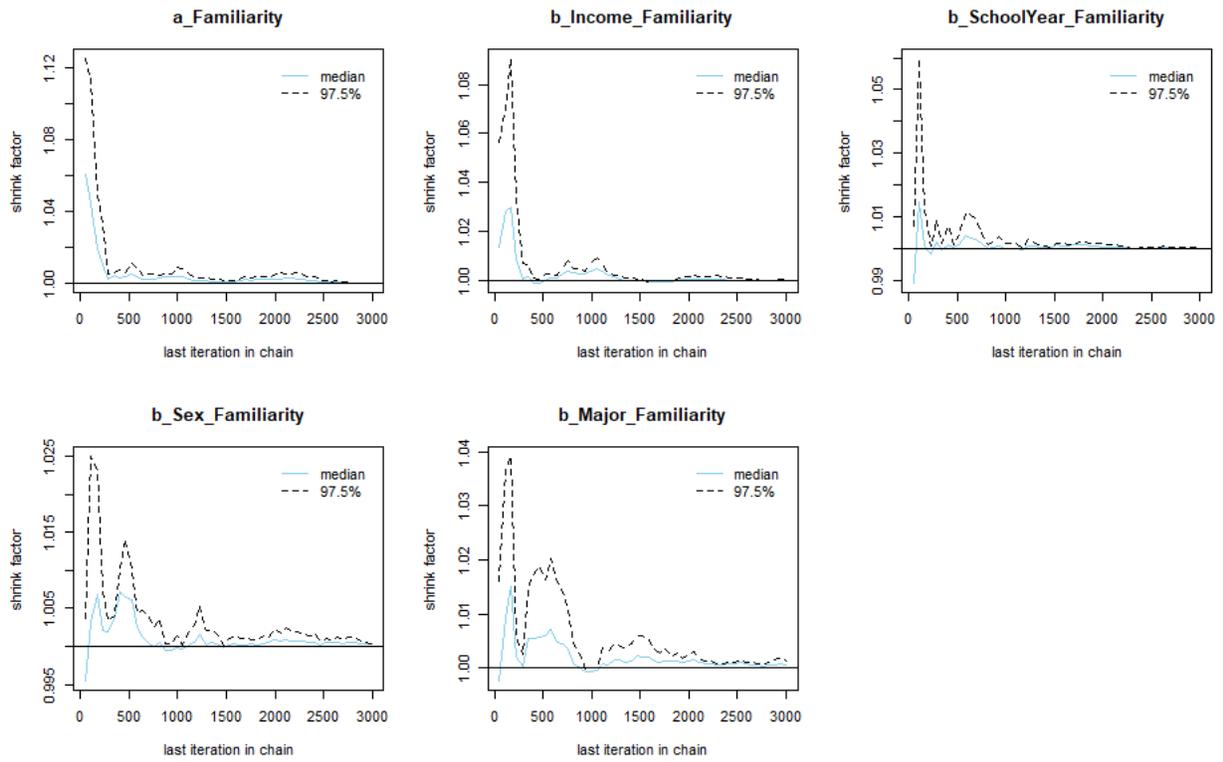


Figure S5.2: Gelman diagnostic for model 5

ACF diagnostic

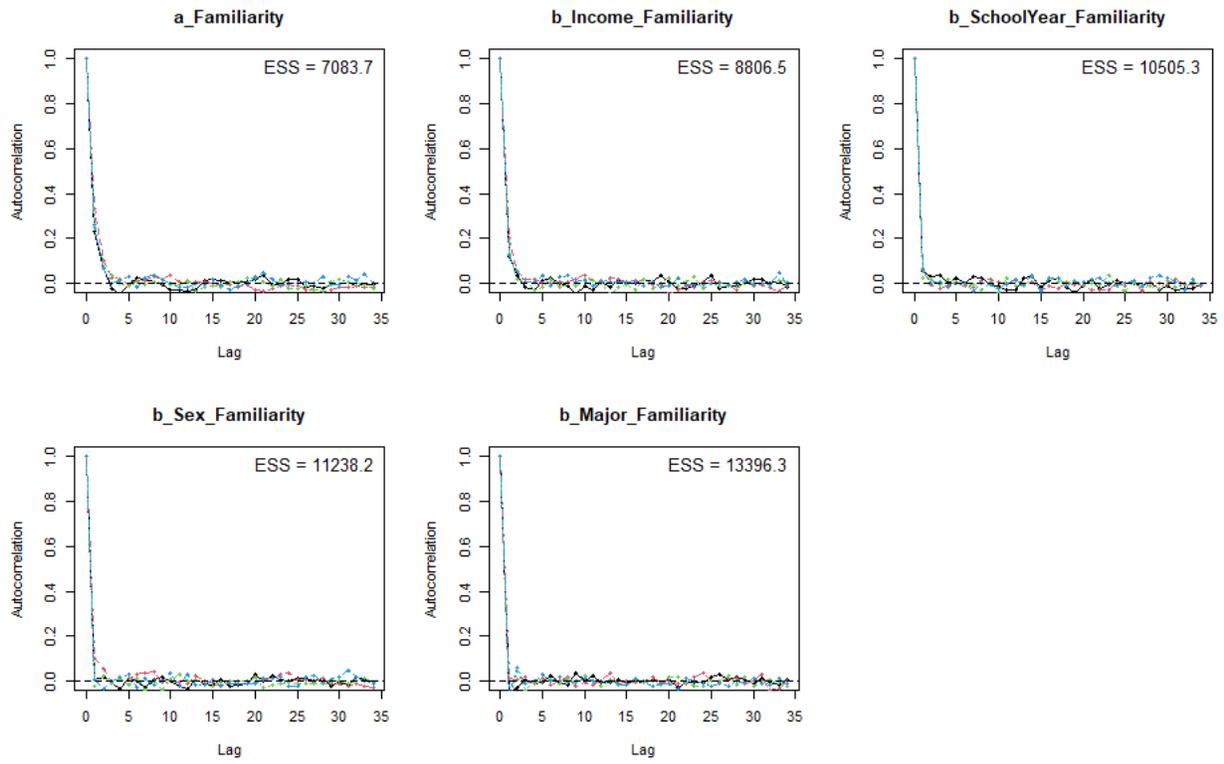


Figure S5.3: ACF diagnostic for model 5.

Posterior results
Interval distribution

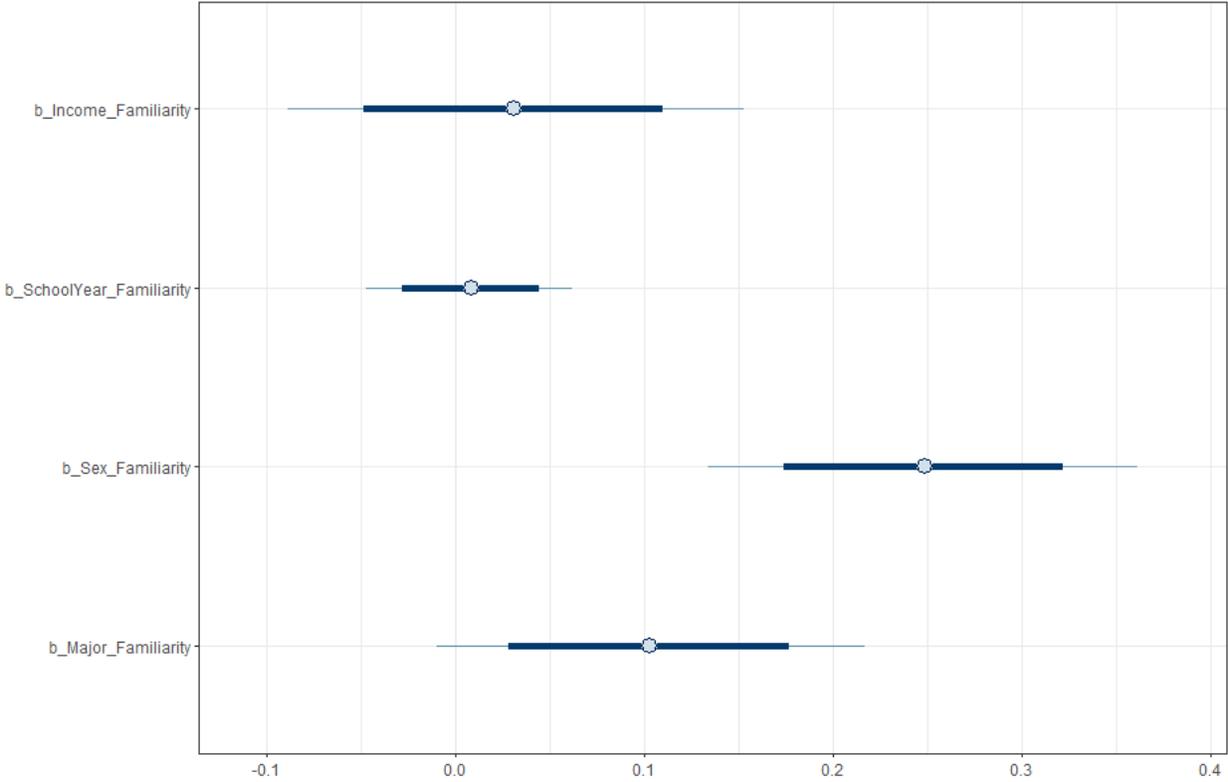


Figure S5.4: Model 5's posterior interval distribution for all explanatory variables.

Density distribution

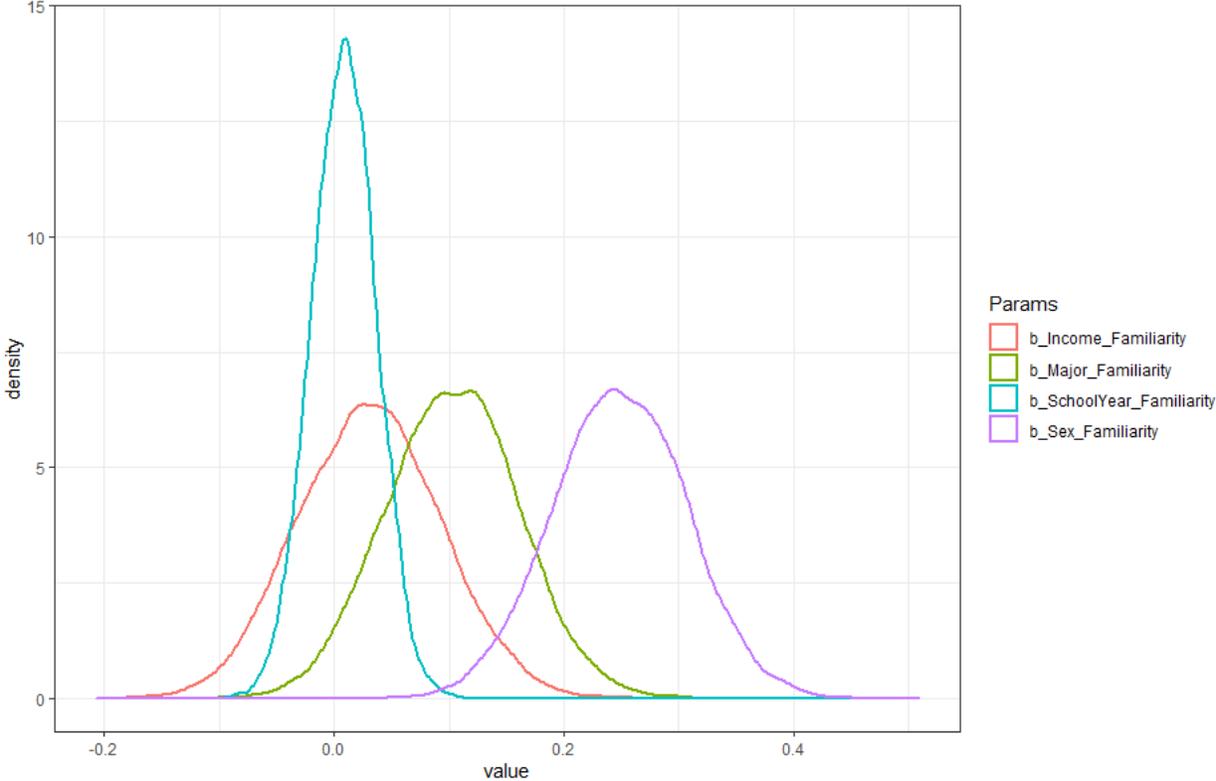


Figure S5.5: Model 5’s posterior density distribution for all explanatory variables.

Density distribution with HPDI

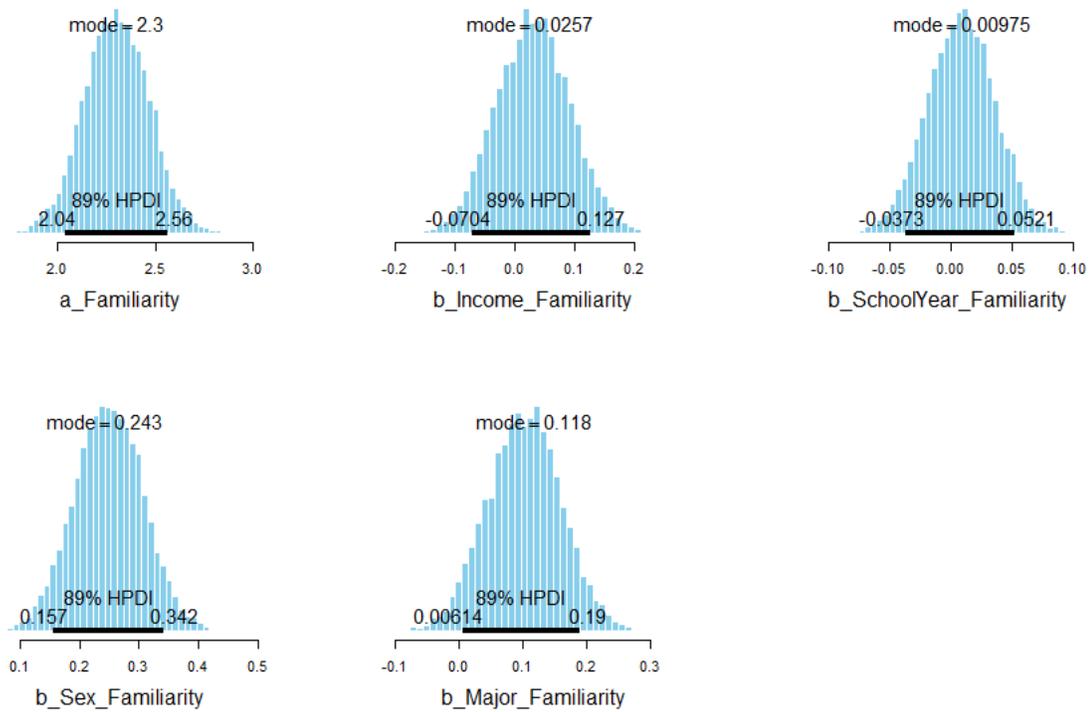


Figure S5.5: Model 4's density distribution with HDPI for all the explanatory variables.

Model Fit Diagnostic

Loo test

Computed from 12000 by 748 log-likelihood matrix

```
      Estimate  SE
elpd_loo  -866.1 18.5
p_loo      5.7  0.3
looic      1732.2 37.0
```

Monte carlo SE of elpd_loo is 0.0.

All Pareto k estimates are good ($k < 0.5$).
see help('pareto-k-diagnostic') for details.

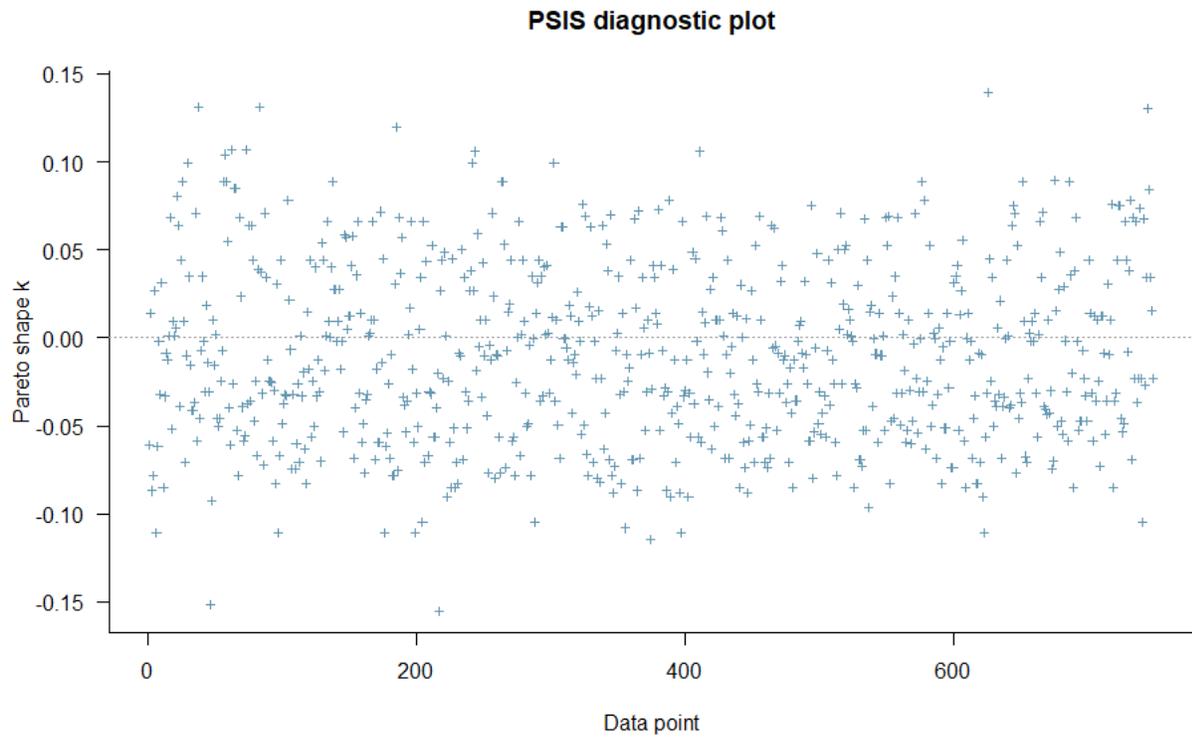


Figure S5.6: PSIS diagnostic plot for model 5.

Marginal predictive distribution

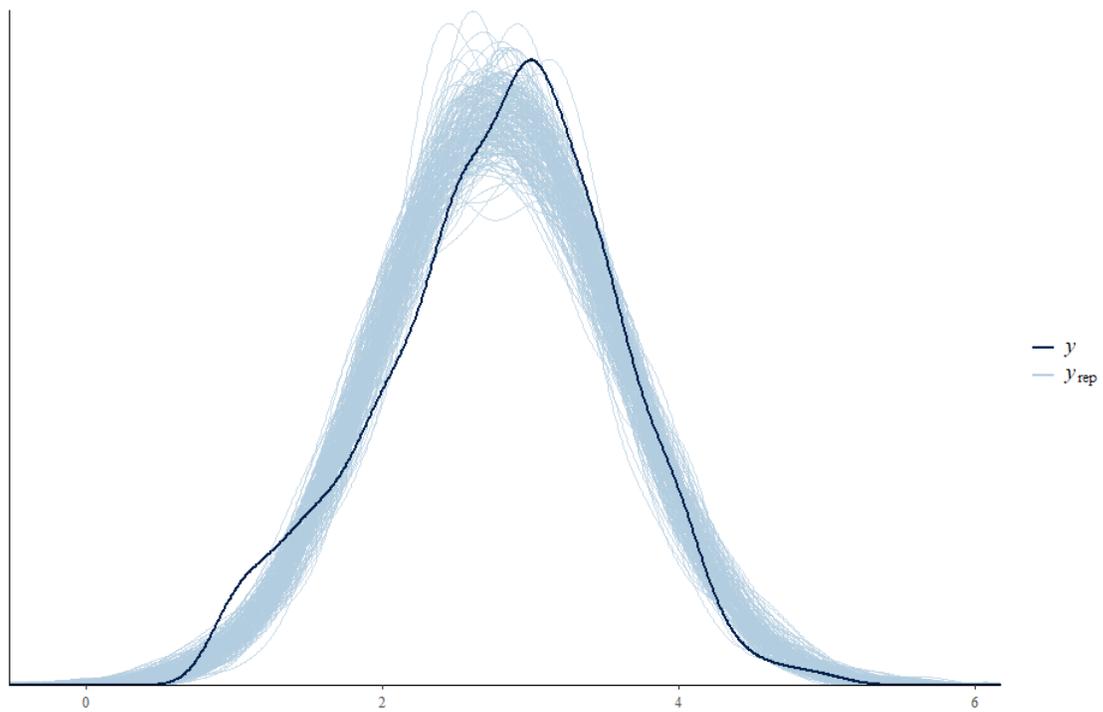


Figure S5.7: Marginal predictive distribution for model 5.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-866.1	18.5
p_waic	5.7	0.3
waic	1732.2	37.0

Model 6

Equation:

$$\text{Familiarity} \sim \text{Christianity} + \text{Islam} + \text{Buddhism}$$

Where

- *Familiarity* is the respondent's self-perceived familiarity with AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);

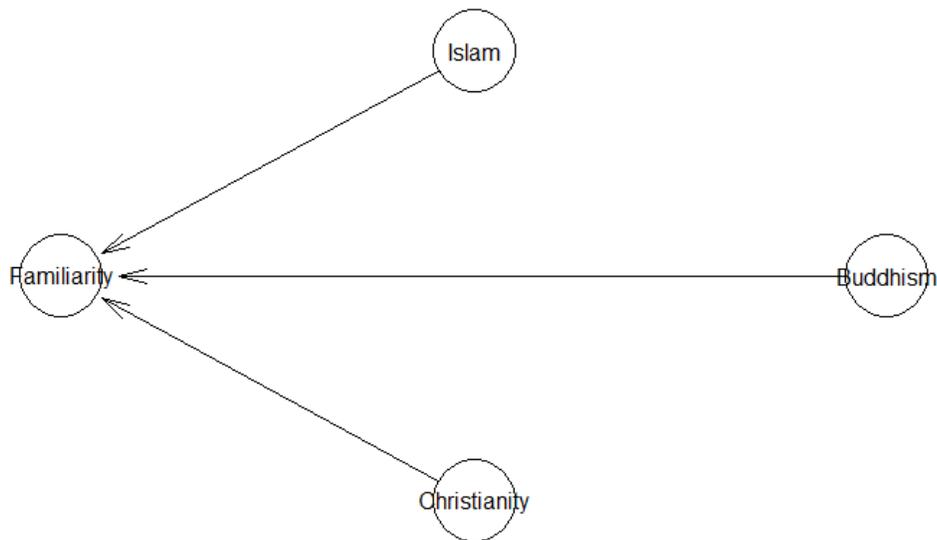


Figure S6.0: Visualization of model 6.

Table S6.1: Posterior estimate of model 6

	Mean	SD	n_eff	Rhat
a_Familiarity	2.83	0.04	9795	1
b_Christianity_Familiarity	0.04	0.08	11355	1
b_Buddhism_Familiarity	-0.07	0.07	10991	1
b_Islam_Familiarity	0.17	0.09	10863	1

Monte Carlo SE of elpd_loo is 0.0.
All Pareto k estimates are good ($k < 0.5$).

Posterior Diagnostics

Trace plot diagnostic

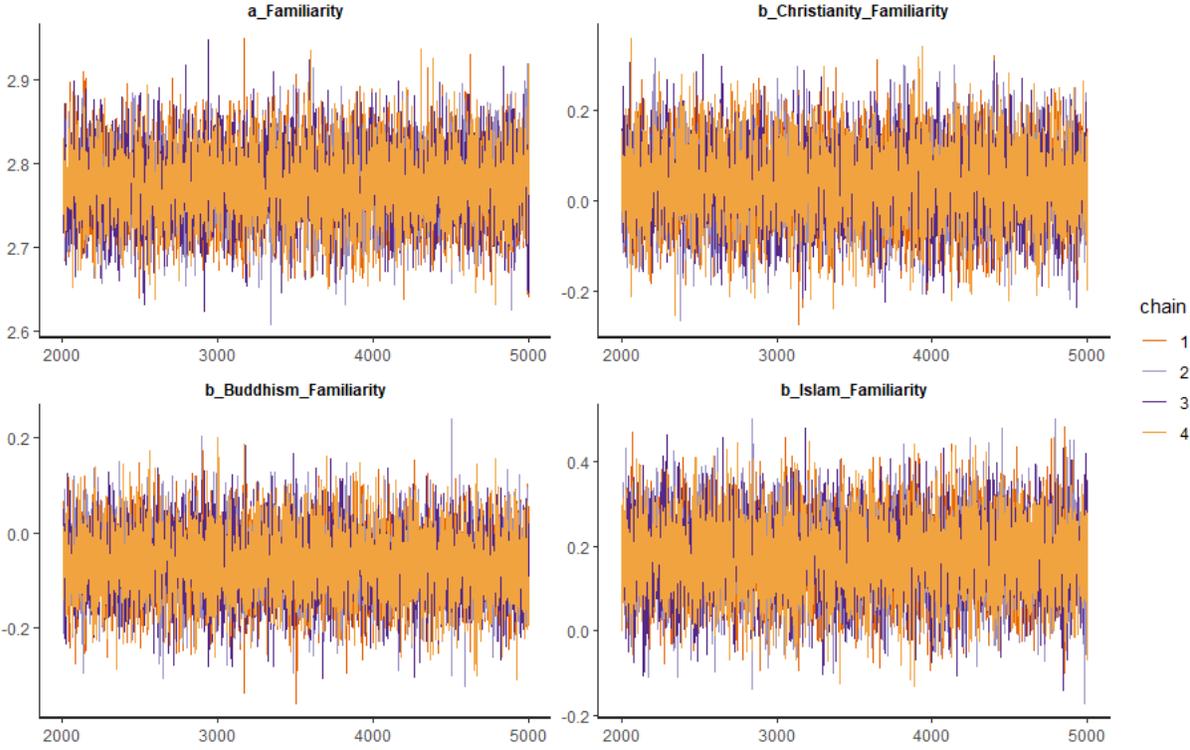


Figure S6.1: Trace plot diagnostic for model 6.

Gelman diagnostic

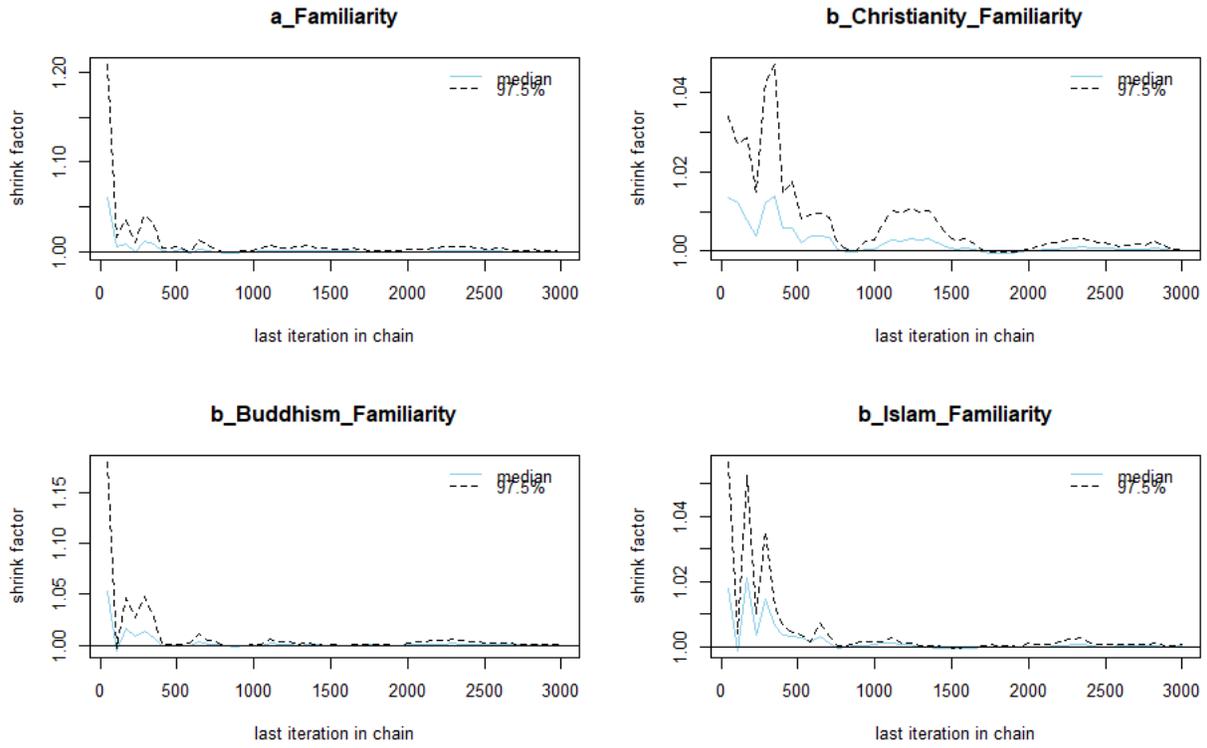


Figure S6.2: Gelman diagnostic for model 6.

ACF diagnostic

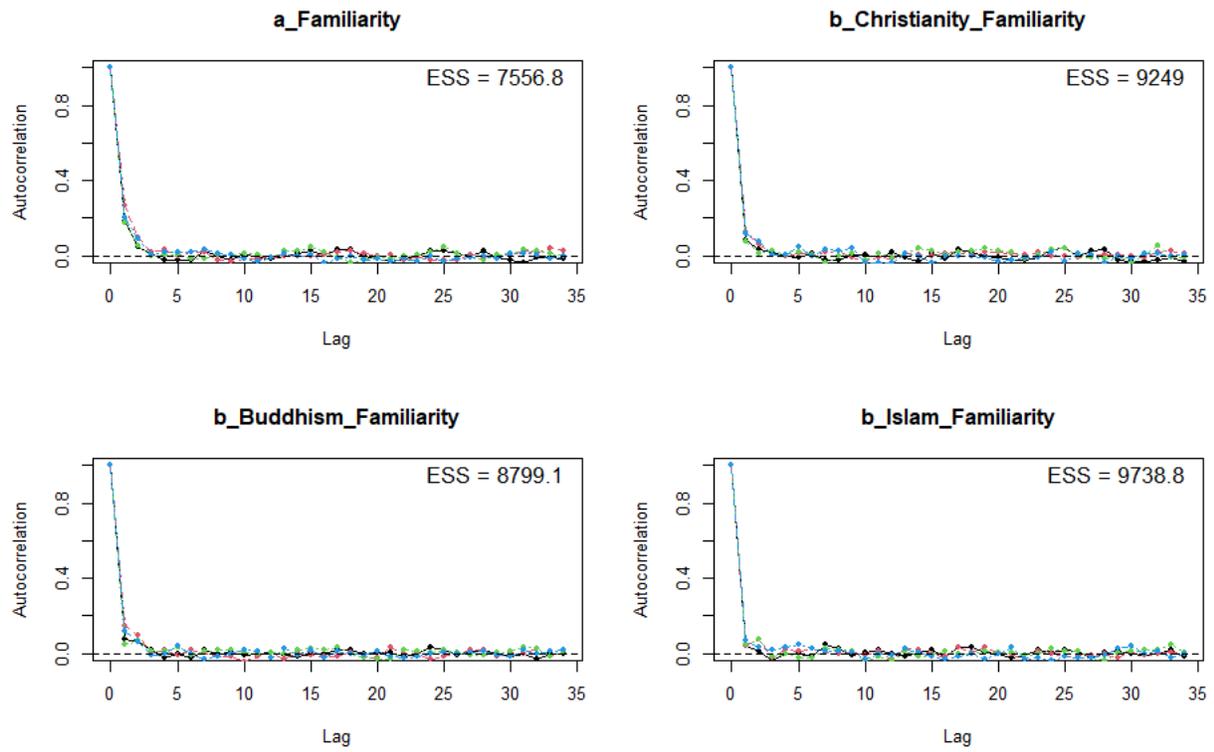


Figure S6.3: ACF diagnostic for model 6.

Posterior results
Interval distribution

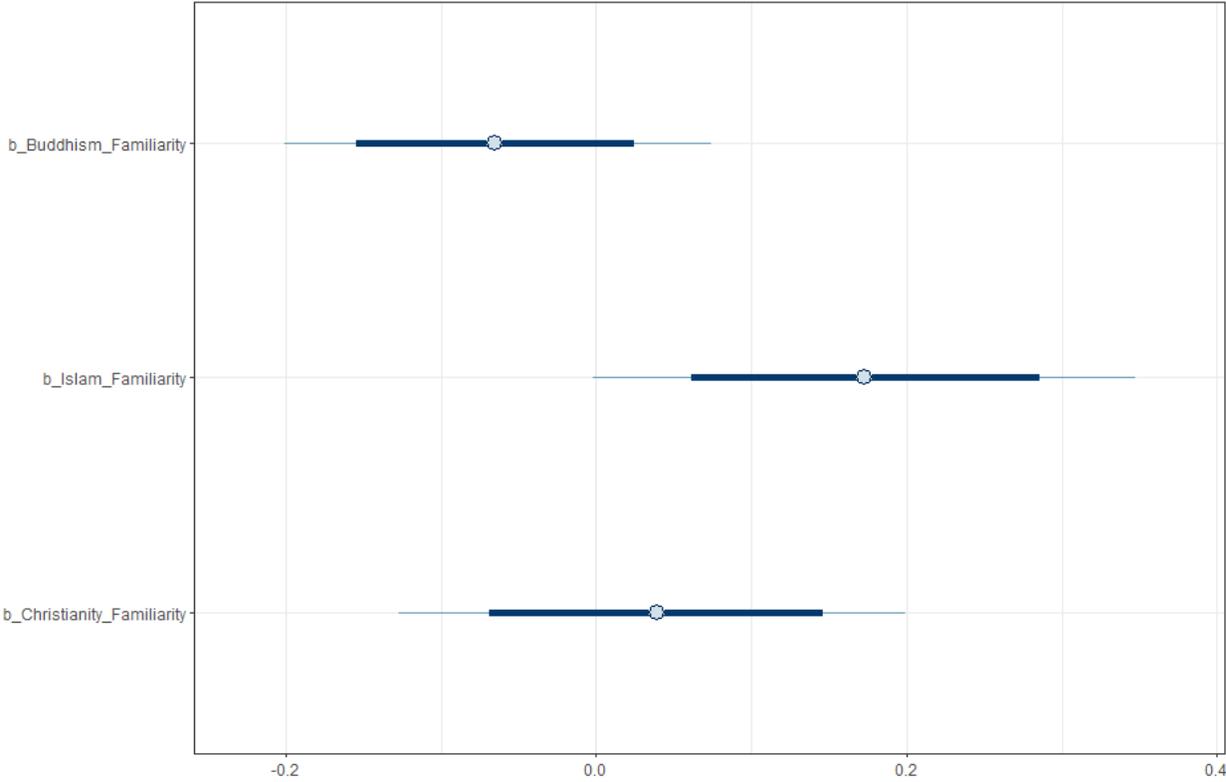


Figure S6.4: Model 6's posterior interval distribution for all explanatory variables.

Density distribution

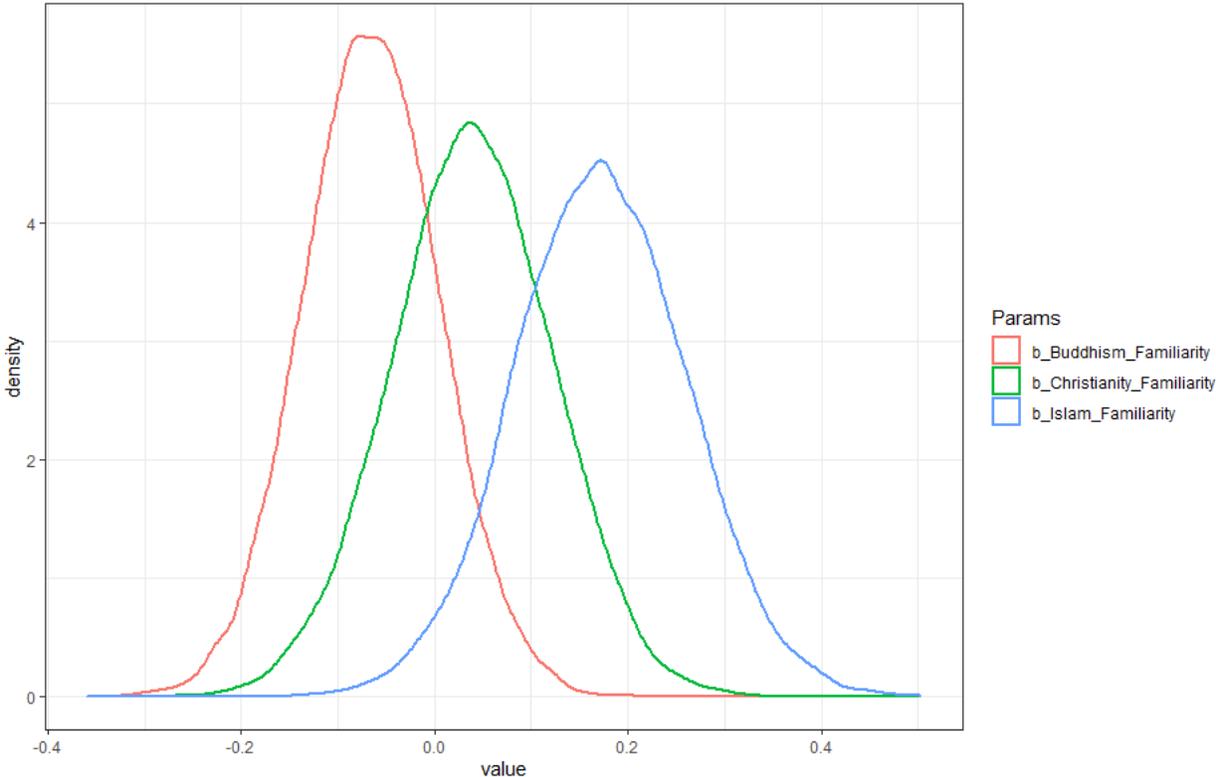


Figure S6.5: Model 6’s posterior density distribution for all explanatory variables.

Density distribution with HPDI

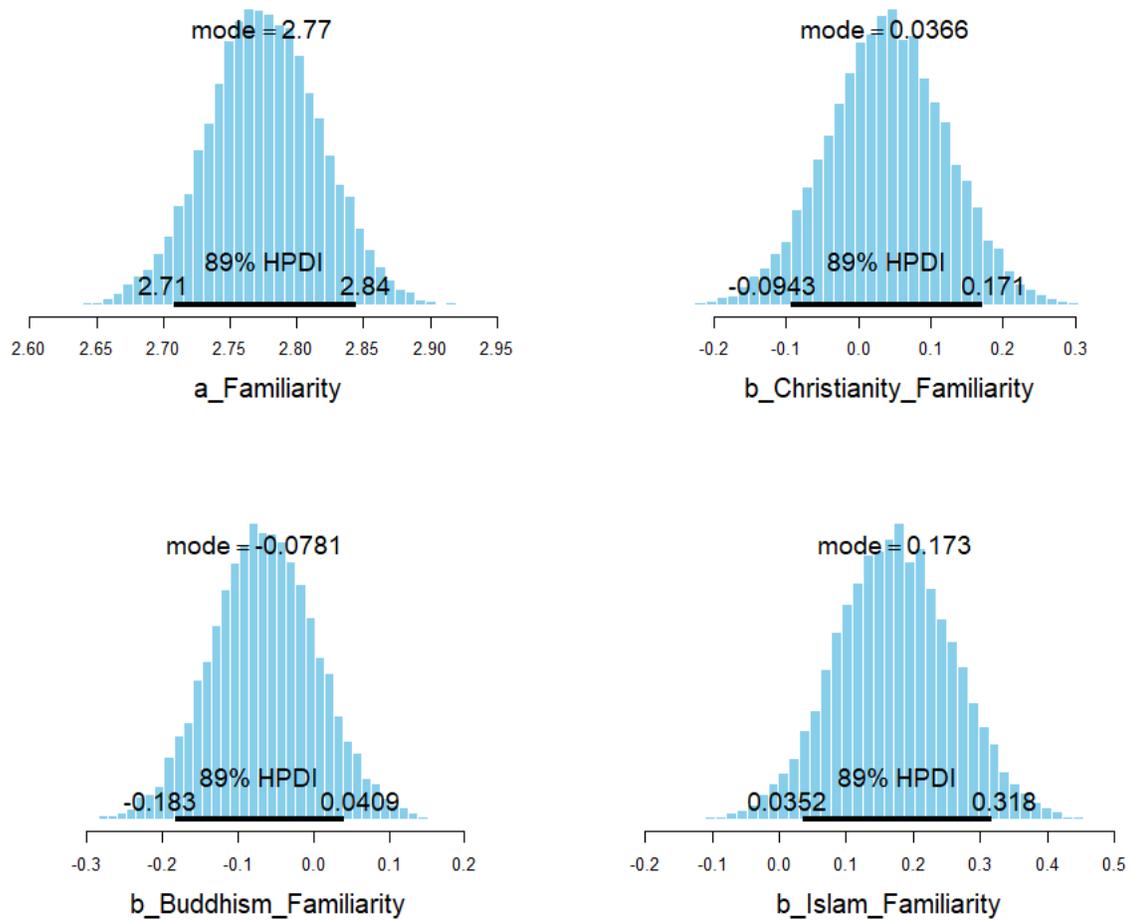


Figure S6.6: Model 6's density distribution with HDPI for all the explanatory variables.

Model Fit Diagnostic

Loo test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
<code>elpd_loo</code>	-874.9	18.1
<code>p_loo</code>	4.6	0.3
<code>looic</code>	1749.8	36.2

Monte Carlo SE of `elpd_loo` is 0.0.

All Pareto k estimates are good ($k < 0.5$).
see `help('pareto-k-diagnostic')` for details.

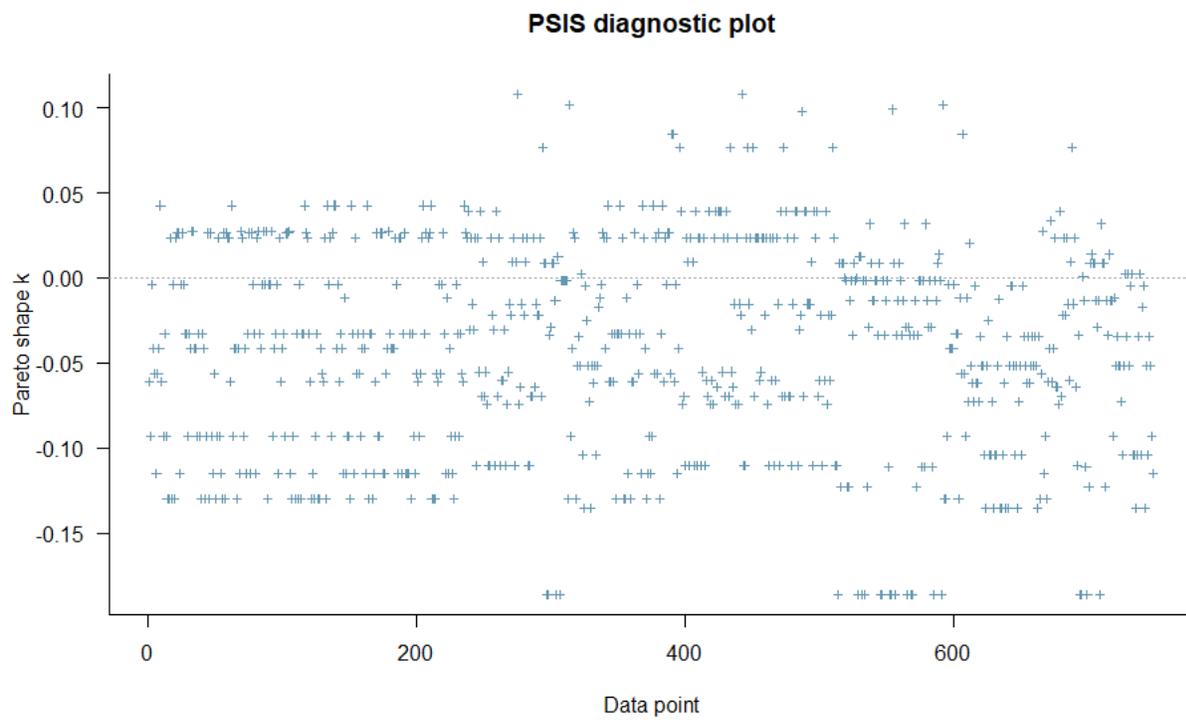


Figure S6.7: PSIS diagnostic plot for model 6.

Marginal predictive distribution

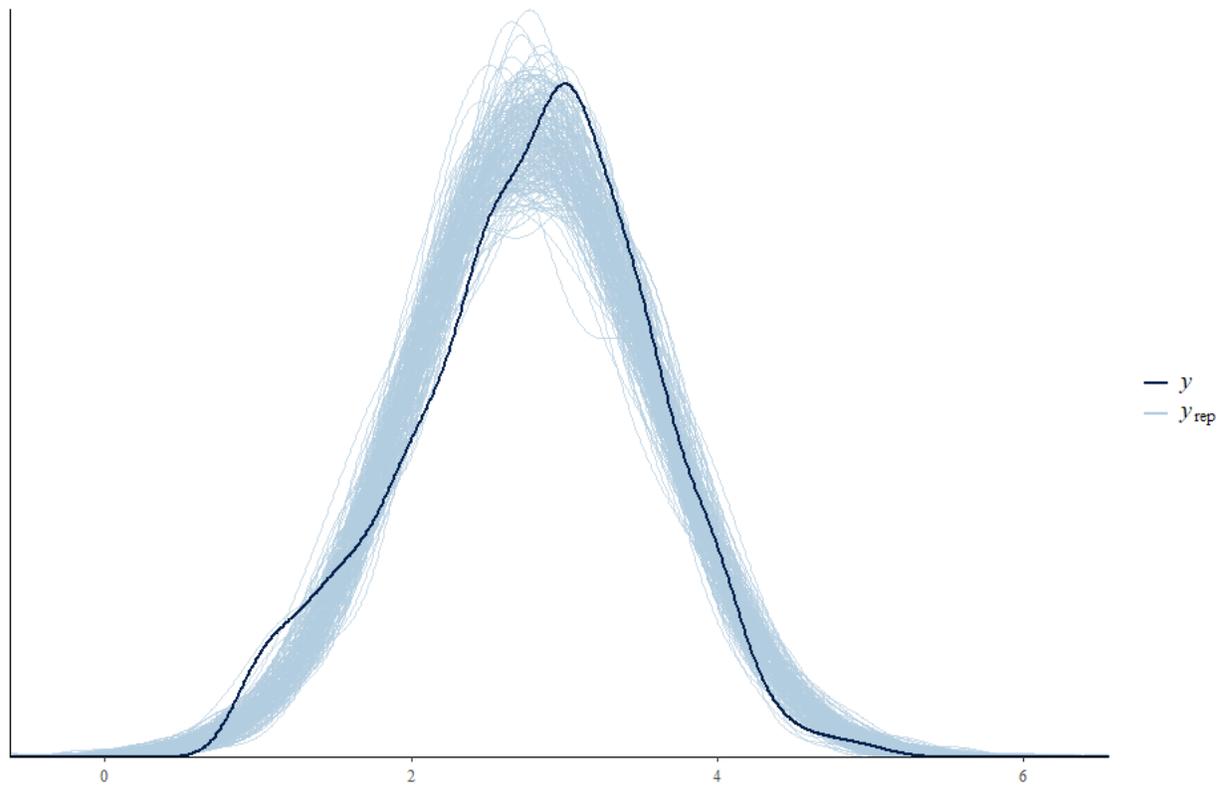


Figure S6.8: Marginal predictive distribution for model 6.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-874.9	18.1
p_waic	4.6	0.3
waic	1749.8	36.2

Model 7

Equation:

$$\text{Familiarity} \sim \text{Christianity} + \text{Islam} + \text{Buddhism} + \text{Christianity_Religiosity} \\ + \text{Islam_Religiosity} + \text{Buddhism_Religiosity}$$

Where

- *Familiarity* is the respondent's familiarity with AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);
- *Religiosity* is the level of respondent's religiosity (ordinal/continuous variable);
- *Buddhism_Religiosity* is interaction between *Buddhism* and *Religiosity* so that $\text{Buddhism_Religiosity} = \text{Buddhism} * \text{Religiosity}$ (continuous variable);
- *Christianity_Religiosity* is interaction between *Christianity* and *Religiosity* so that $\text{Christianity_Religiosity} = \text{Christianity} * \text{Religiosity}$ (continuous variable);
- *Islam_Religiosity* is interaction between *Islam* and *Religiosity* so that $\text{Islam_Religiosity} = \text{Islam} * \text{Religiosity}$ (continuous variable).

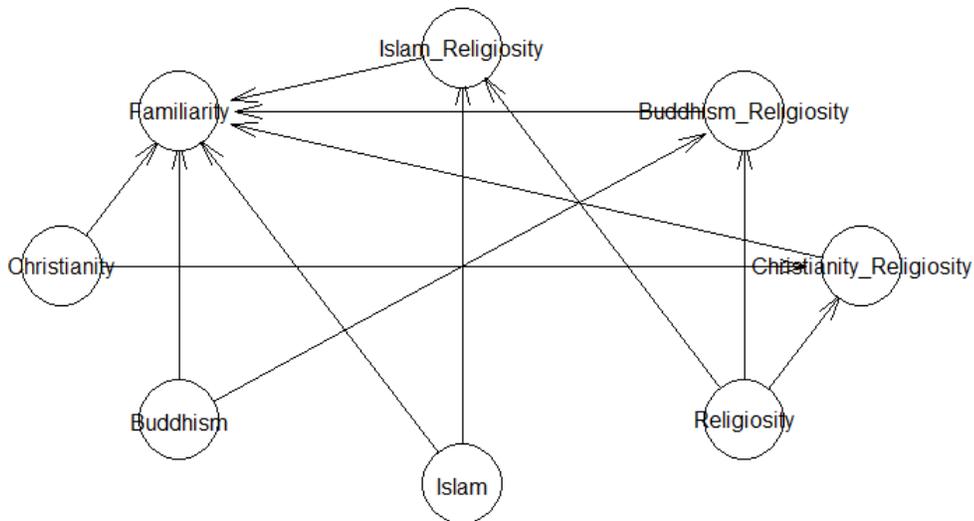


Figure S7.0. Visualization of model 7.

Table 1: Posterior estimate of model 7

	Mean	SD	n_eff	Rhat
a_Familiarity	2.78	0.07	9448	1
b_Christianity_Familiarity	0.03	0.21	9428	1
b_Christianity_Religiosity_Familiarity	-0.03	0.33	10145	1
b_Buddhism_Attitude	-0.06	0.17	10637	1
b_Buddhism_Religiosity_Familiarity	-0.04	0.34	11888	1
b_Islam_Attitude	-0.08	0.19	8769	1
b_Islam_Religiosity_Familiarity	0.34	0.25	10316	1

Monte Carlo SE of elpd_loo is 0.0.
 All Pareto k estimates are good ($k < 0.5$).

Posterior Diagnostics

Trace plot diagnostic

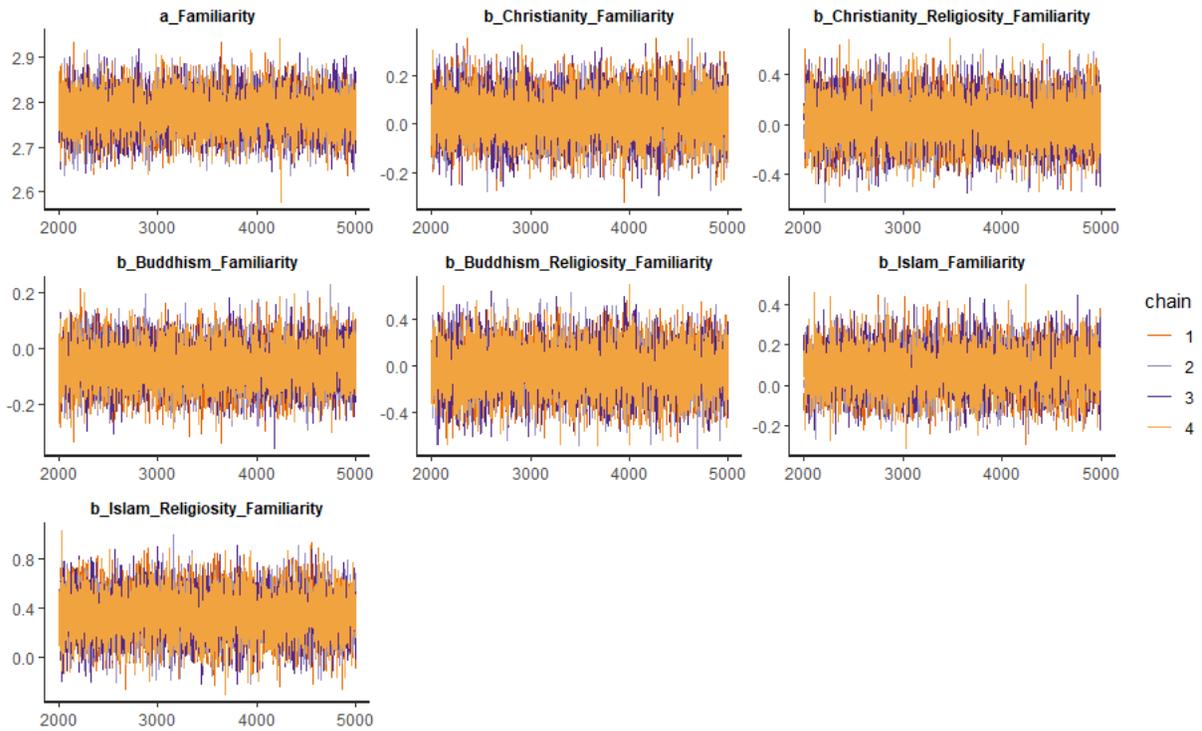


Figure S7.1: Trace plot diagnostic for model 7.

Gelman diagnostic

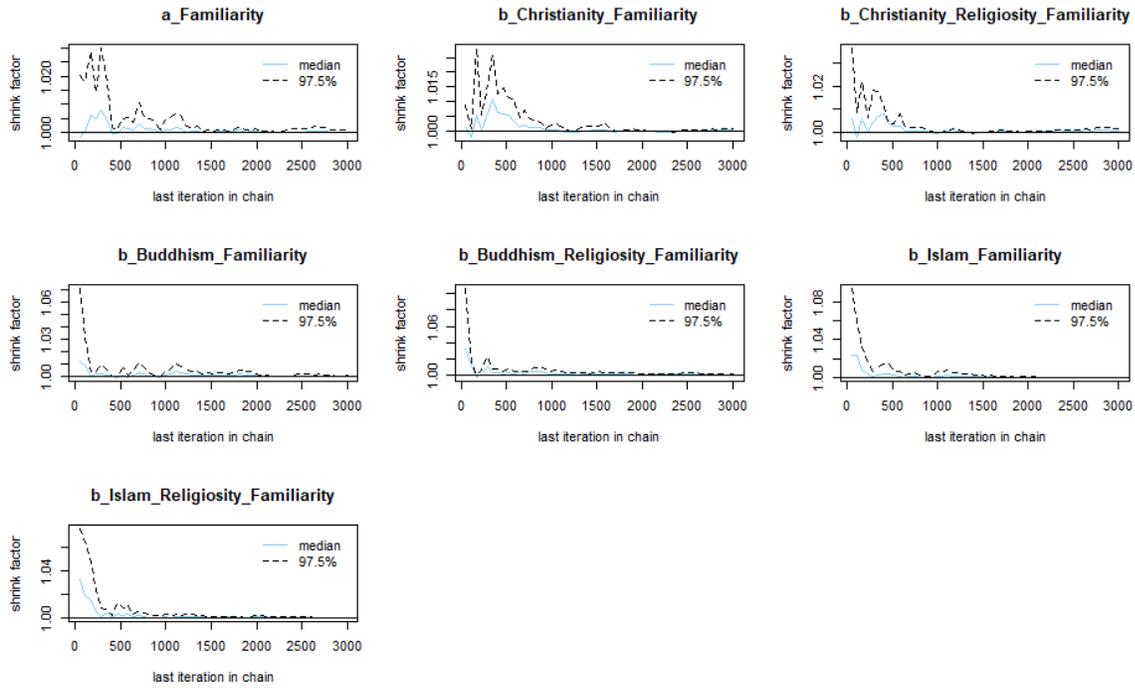


Figure S7.2: Gelman diagnostic for model 7.

ACF diagnostic

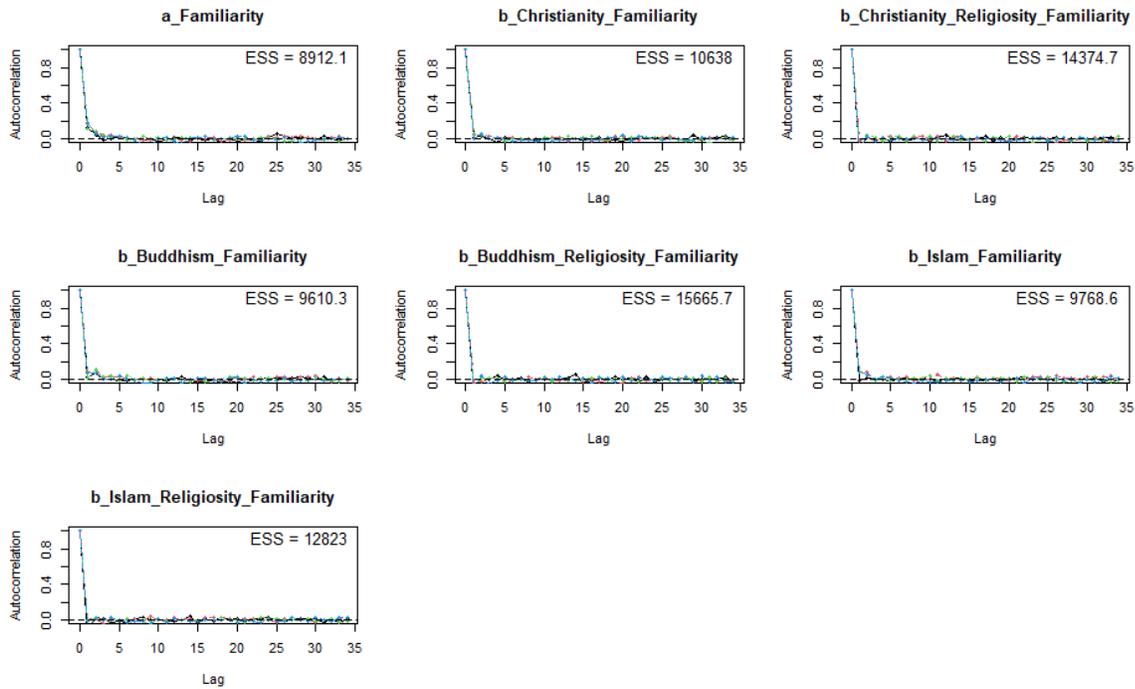


Figure S7.3: ACF diagnostic for model 7.

Posterior results
Interval distribution

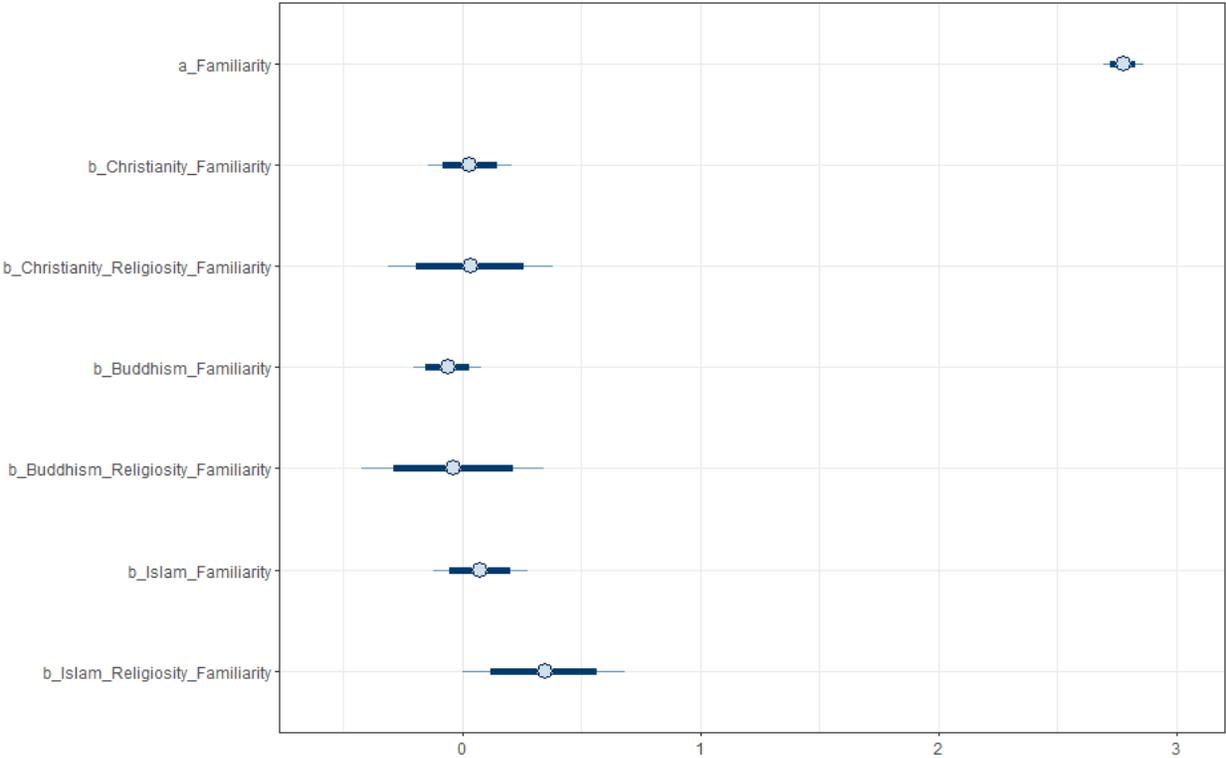


Figure S7.4: Model 7's posterior interval distribution for all explanatory variables.

Density distribution

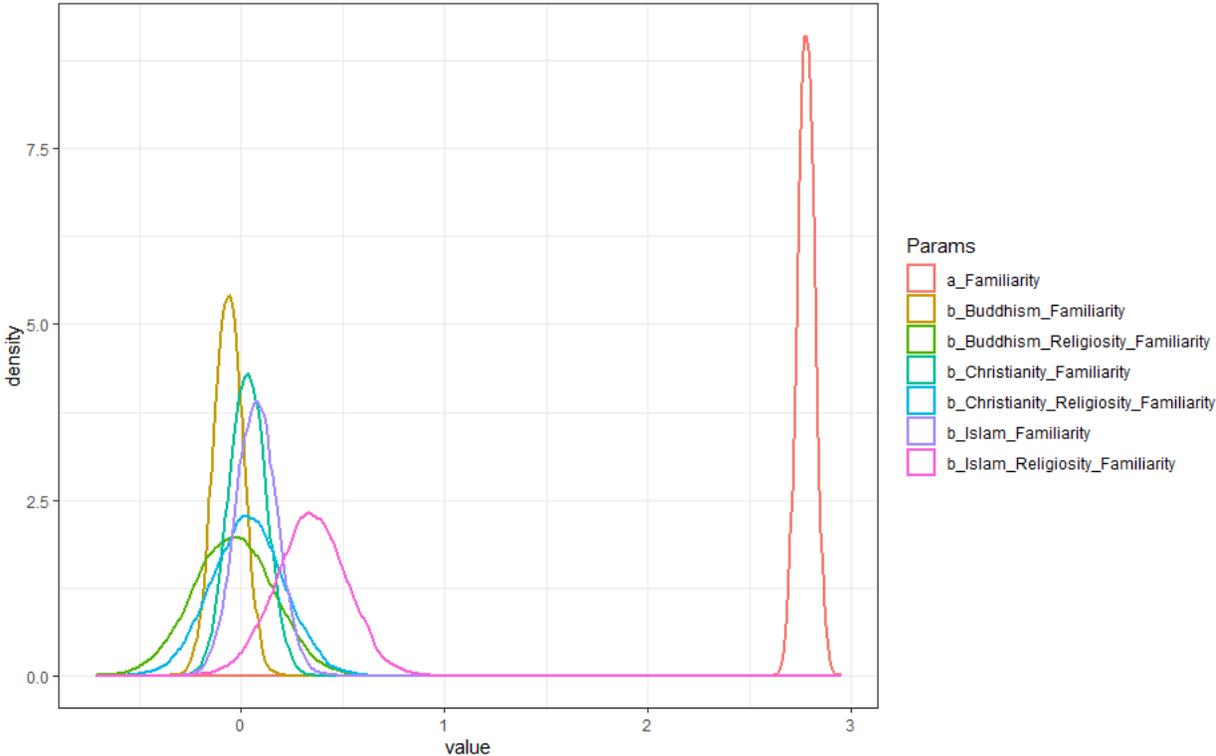


Figure S7.5: Model 4's density distribution for the all the explanatory variables.

Density distribution with HPDI

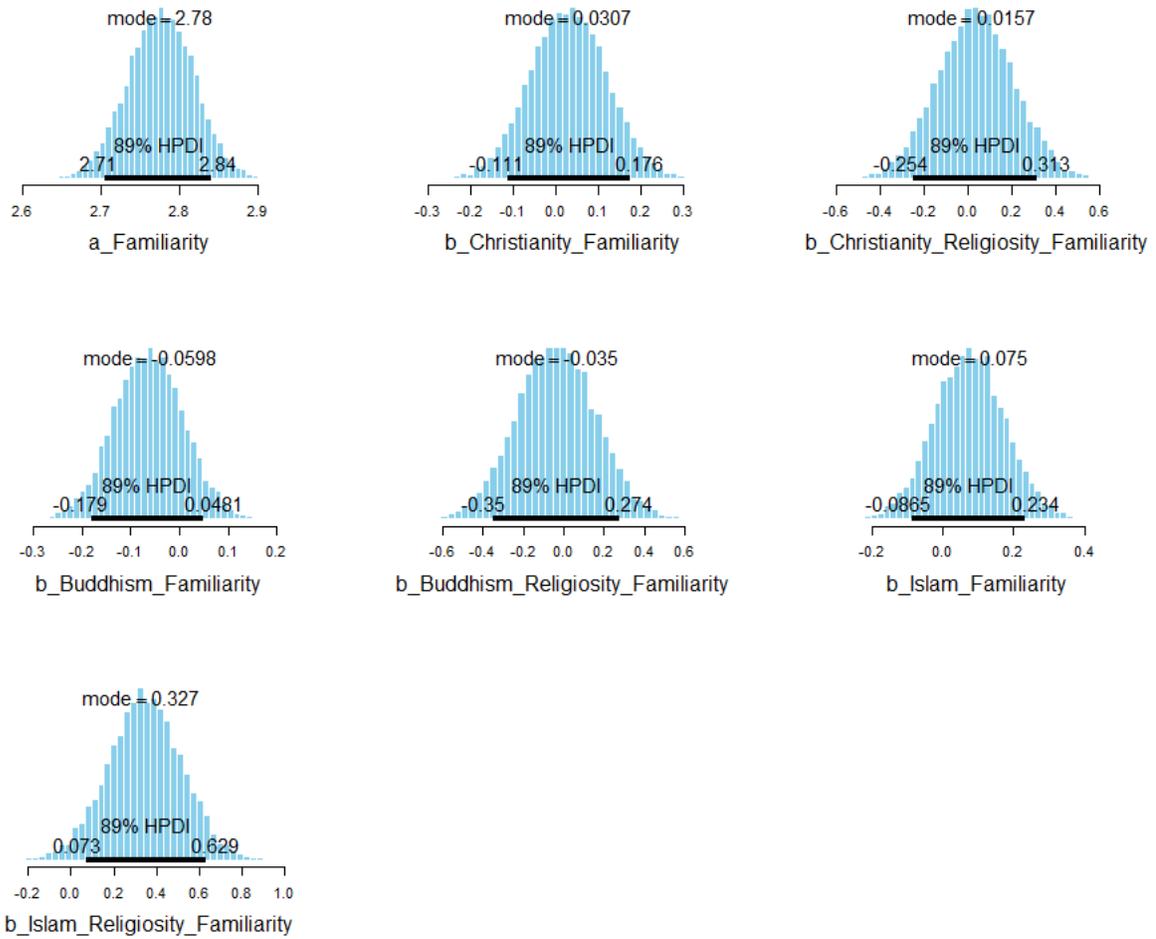


Figure S7.6: Model 7's density distribution with HDPI for all the explanatory variables.

Model Fit Diagnostic

Loo test

Computed from 12000 by 748 log-likelihood matrix

```
Estimate SE
elpd_loo -875.8 18.1
p_loo    7.2 0.5
looic    1751.6 36.3
```

Monte Carlo SE of elpd_loo is 0.0.

All Pareto k estimates are good ($k < 0.5$).
See `help('pareto-k-diagnostic')` for details.

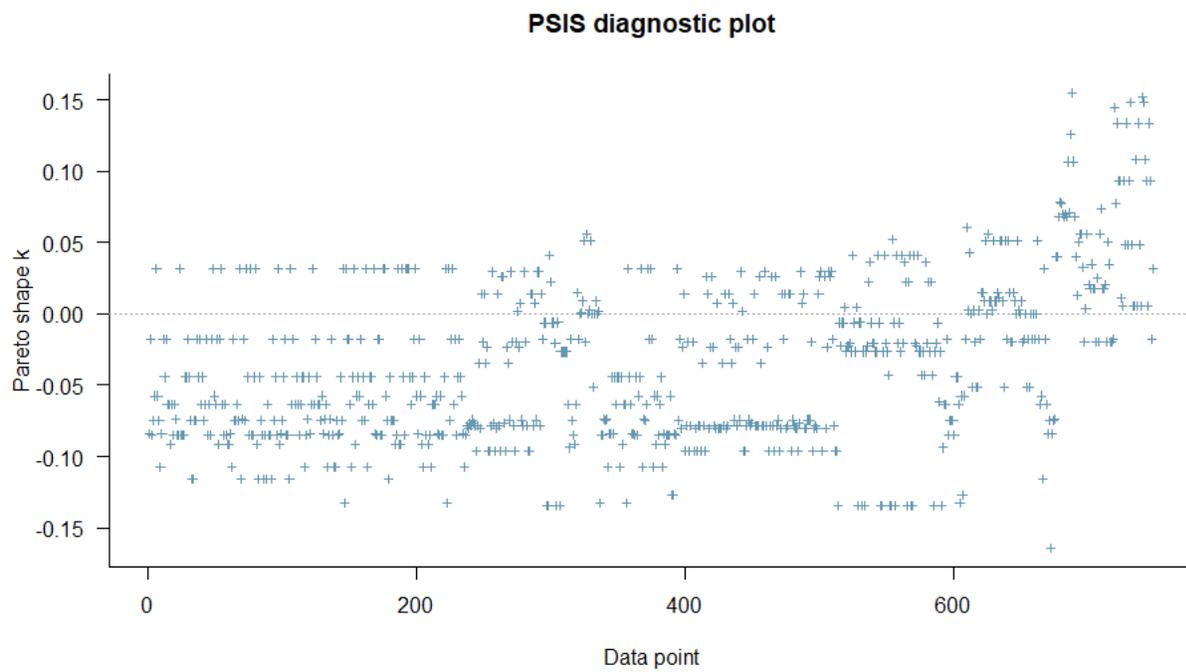


Figure S7.7: PSIS diagnostic plot for model 7.

Marginal predictive distribution

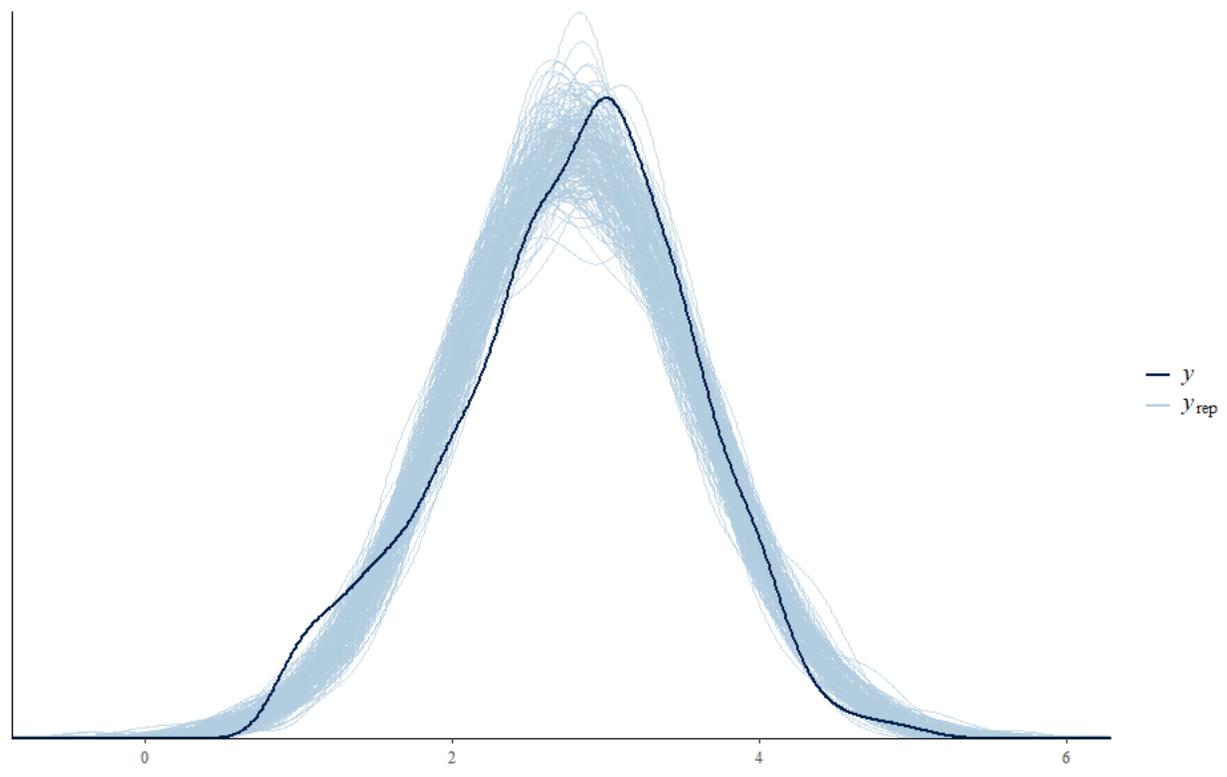


Figure S7.8: Marginal predictive distribution for model 7.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-875.8	18.1
p_waic	7.2	0.5
waic	1751.5	36.3

Model 8

Equation:

$$\text{Familiarity} \sim \text{Income} + \text{SchoolYear} + \text{Sex} + \text{Major} + \text{Christianity} + \text{Islam} + \text{Buddhism} \\ + \text{Christianity_Religiosity} + \text{Islam_Religiosity} + \text{Buddhism_Religiosity}$$

Where

- *Familiarity* is respondent's familiarity with AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);
- *Religiosity* is the level of respondent's religiosity (ordinal/continuous variable);
- *Buddhism_Religiosity* is interaction between *Buddhism* and *Religiosity* so that $\text{Buddhism_Religiosity} = \text{Buddhism} * \text{Religiosity}$ (continuous variable);
- *Christianity_Religiosity* is interaction between *Christianity* and *Religiosity* so that $\text{Christianity_Religiosity} = \text{Christianity} * \text{Religiosity}$ (continuous variable);
- *Islam_Religiosity* is interaction between *Islam* and *Religiosity* so that $\text{Islam_Religiosity} = \text{Islam} * \text{Religiosity}$ (continuous variable).

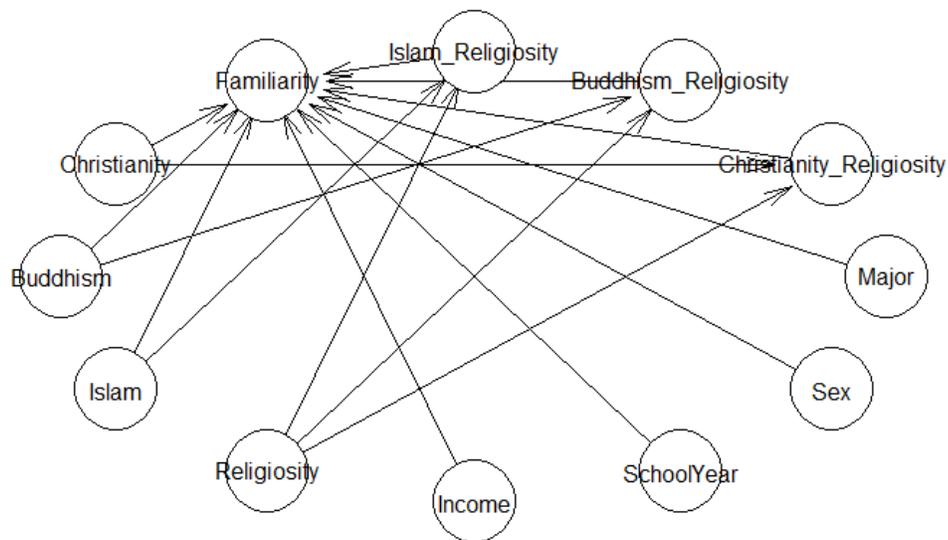


Figure S8.0: Visualization of model 8.

Table S8.1: Posterior estimate of model 8

	Mean	SD	n_eff	Rhat
a_Familiarity	1.95	0.17	6542	1
b_Christianity_Familiarity	0.02	0.09	10522	1
b_Christianity_Religiosity_Familiarity	0.08	0.17	11234	1
b_Buddhism_Familiarity	-0.04	0.07	13526	1
b_Buddhism_Religiosity_Familiarity	-0.01	0.19	9820	1
b_Islam_Familiarity	-0.10	0.10	11532	1
b_Islam_Religiosity_Familiarity	0.27	0.10	8622	1
b_Income_Familiarity	0.04	0.17	10523	1
b_SchoolYear_Familiarity	0.02	0.03	10025	1
b_Sex_Familiarity	0.23	0.06	10995	1
b_Major_Familiarity	0.11	0.06	12687	1

Monte Carlo SE of elpd_loo is 0.0.
 All Pareto k estimates are good ($k < 0.5$).

Posterior Diagnostics

Trace plot diagnostic

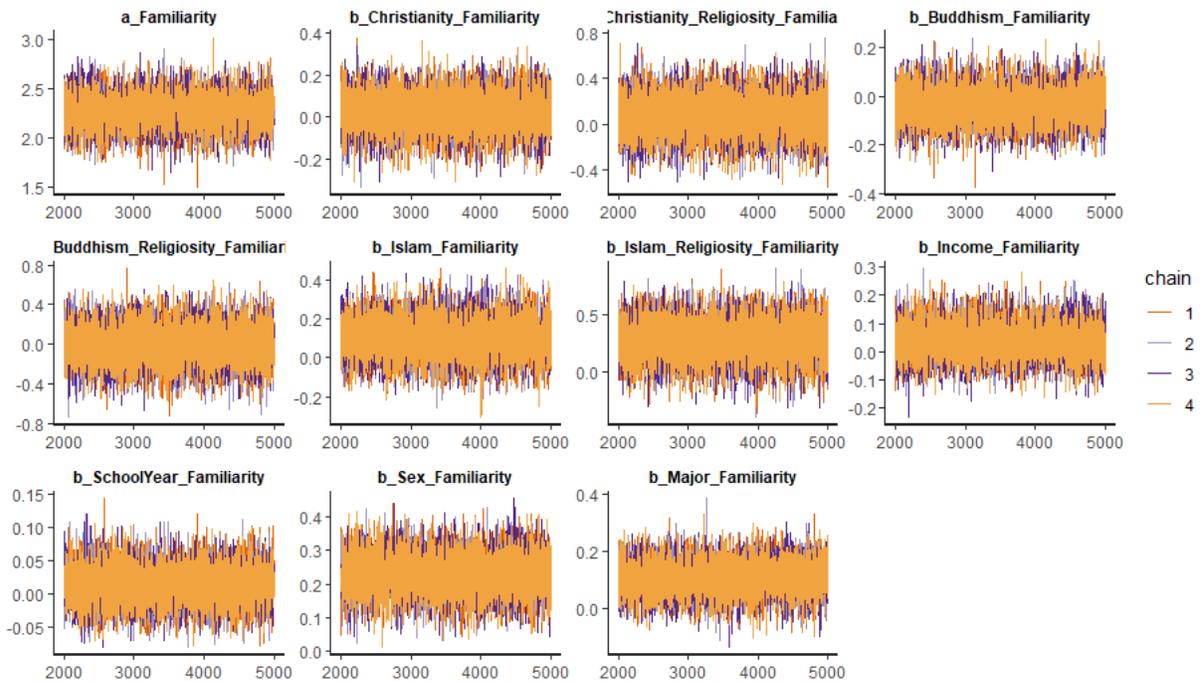


Figure S8.1: Trace plot diagnostic for model 8.

Gelman diagnostic

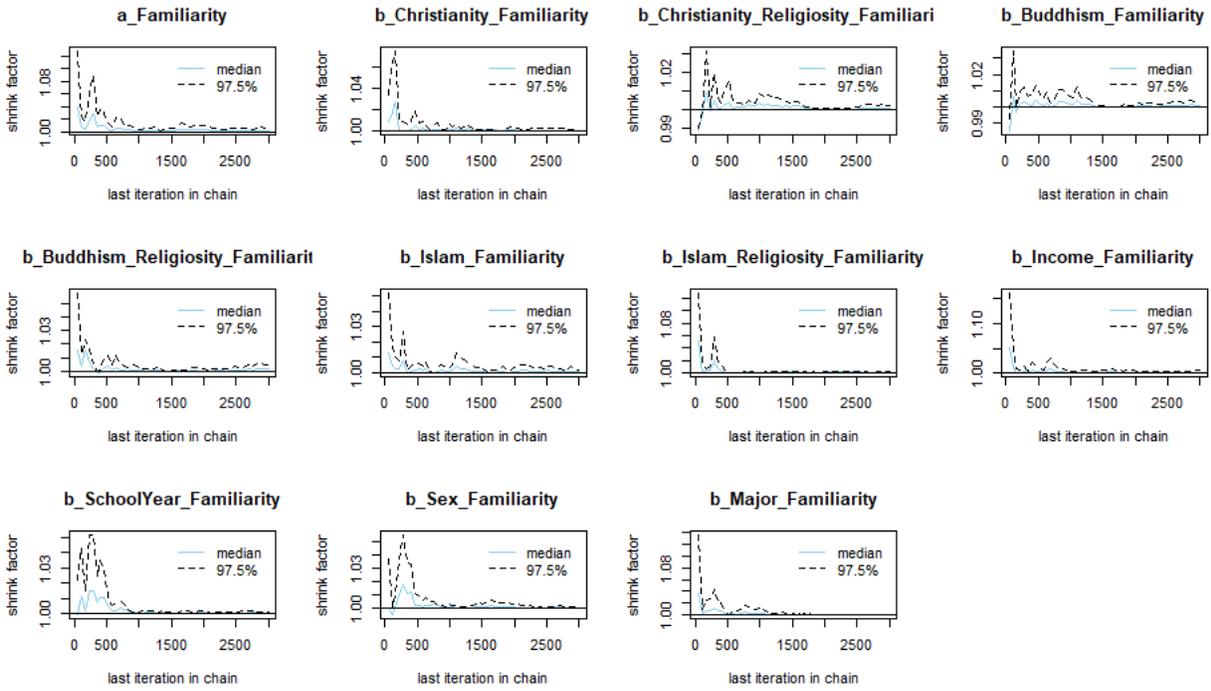


Figure S8.2: Gelman diagnostic for model 8.

ACF diagnostic

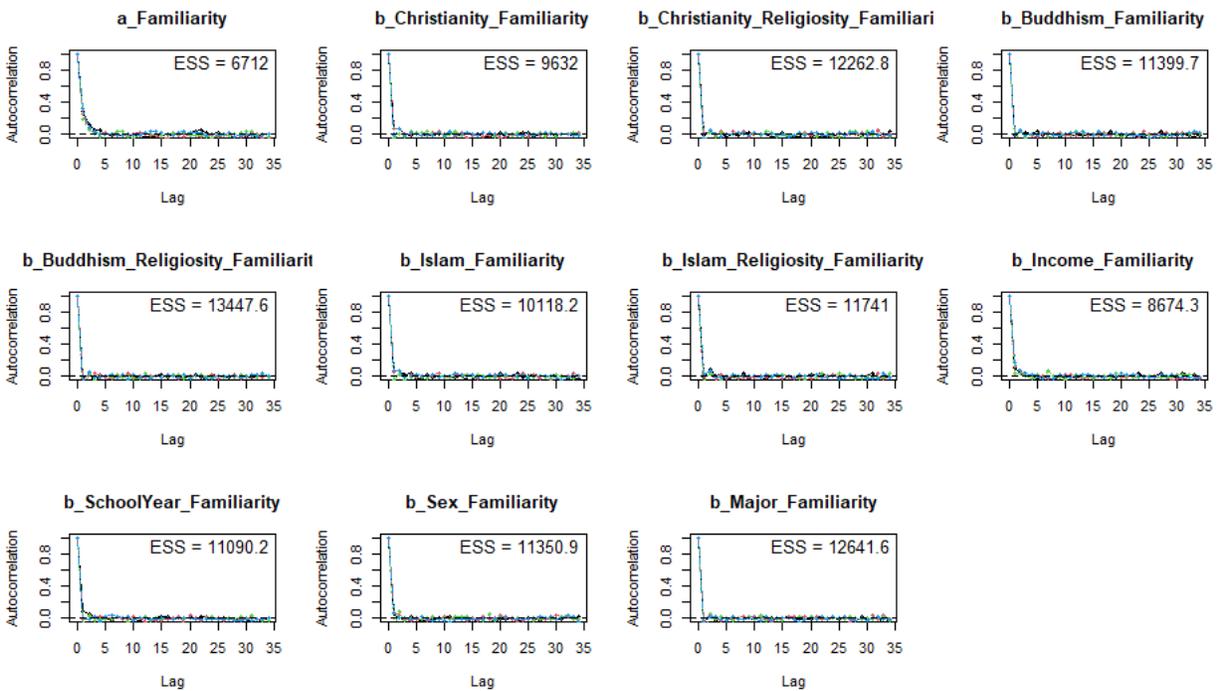


Figure S8.3: ACF diagnostic for model 8.

Posterior results
Interval distribution

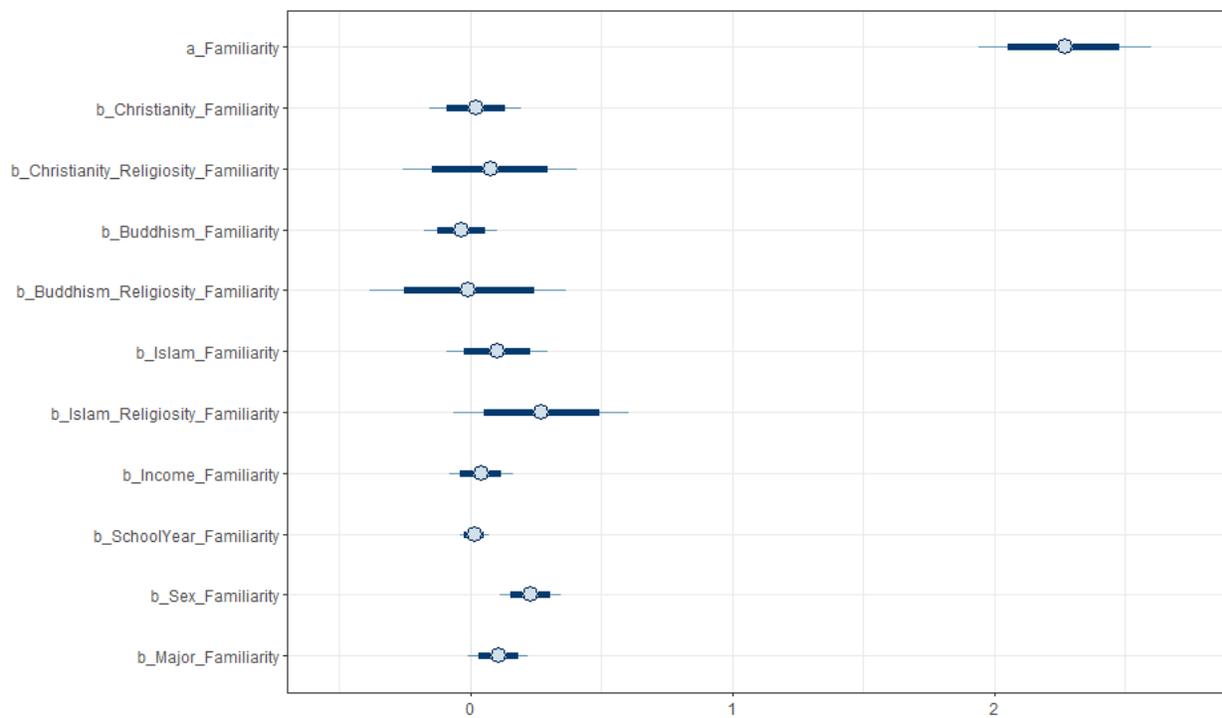


Figure S8.4: Model 8's density distribution for the all the explanatory variables.

Density distribution

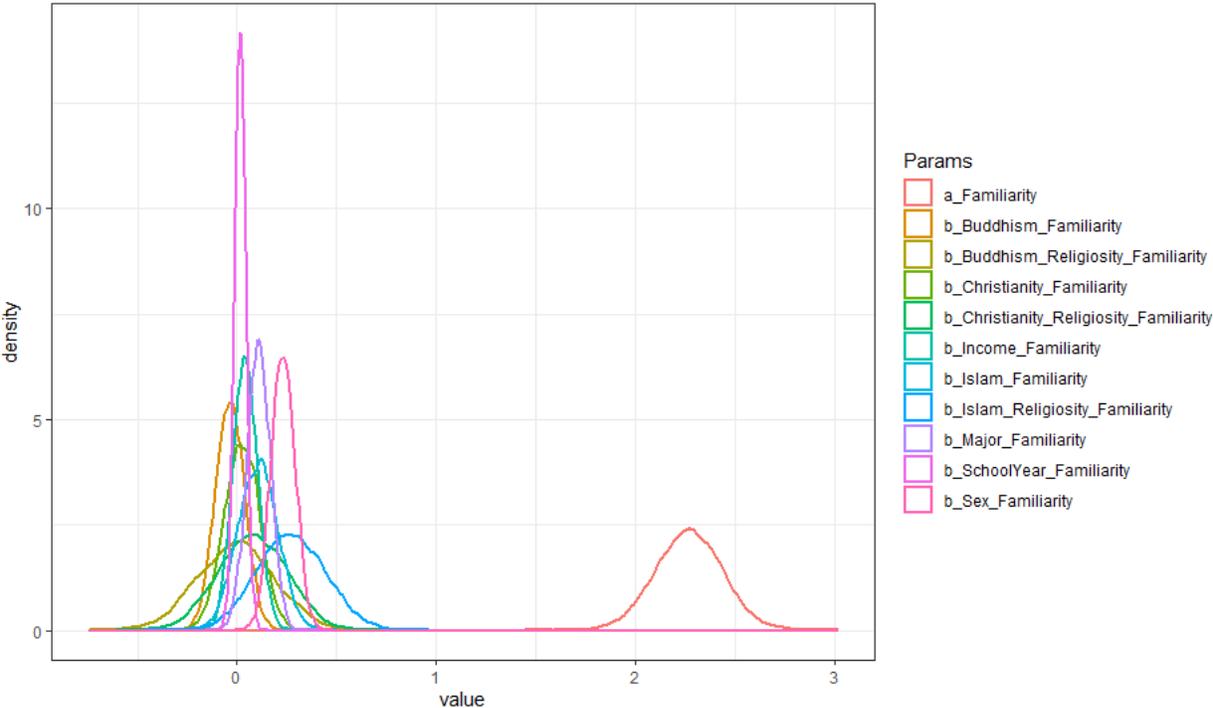


Figure S8.5: Model 8's posterior interval distribution for all explanatory variables.

Density distribution with HPDI

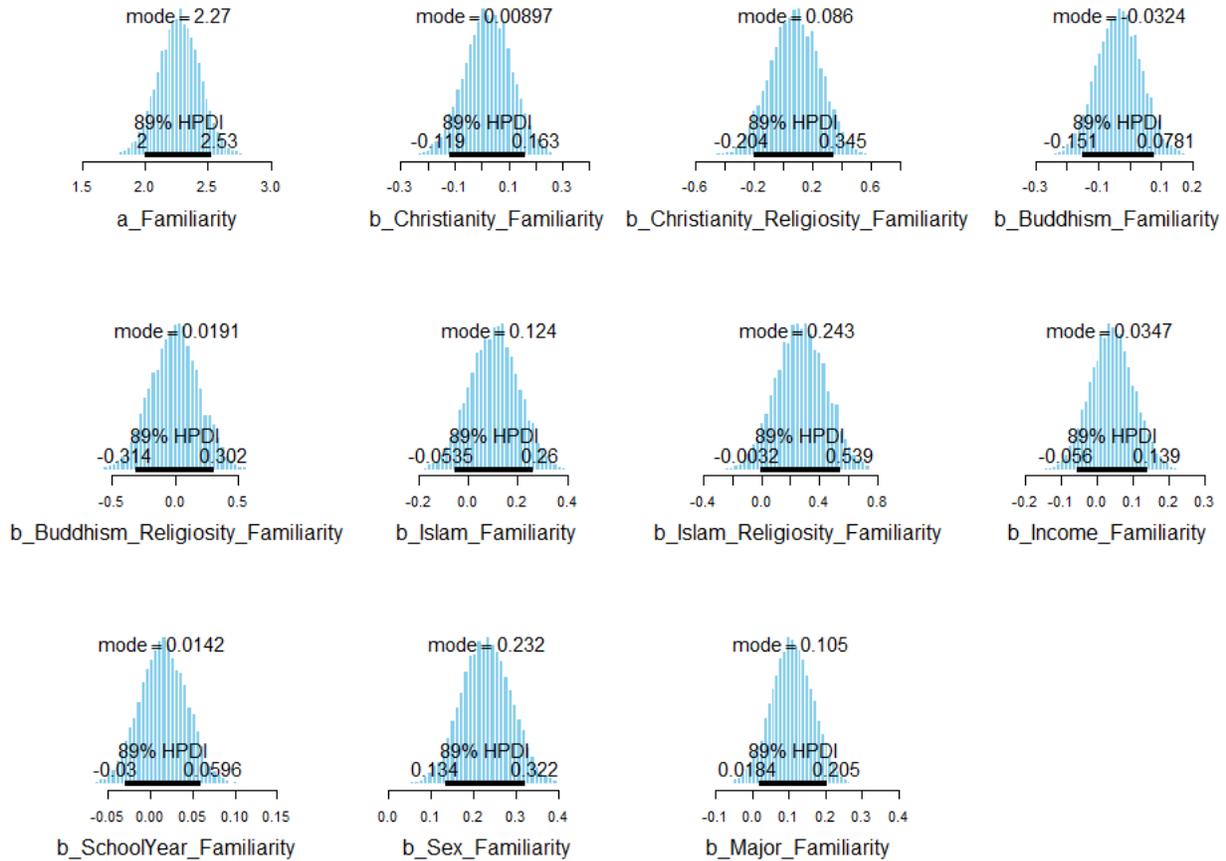


Figure S8.6: Model 8's density distribution with HDPI for all the explanatory variables.

Model Fit Diagnostic

Loo test

computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_loo	-867.6	18.6
p_loo	10.9	0.7
looic	1735.3	37.1

Monte Carlo SE of elpd_loo is 0.0.

All Pareto k estimates are good ($k < 0.5$).
see `help('pareto-k-diagnostic')` for details.

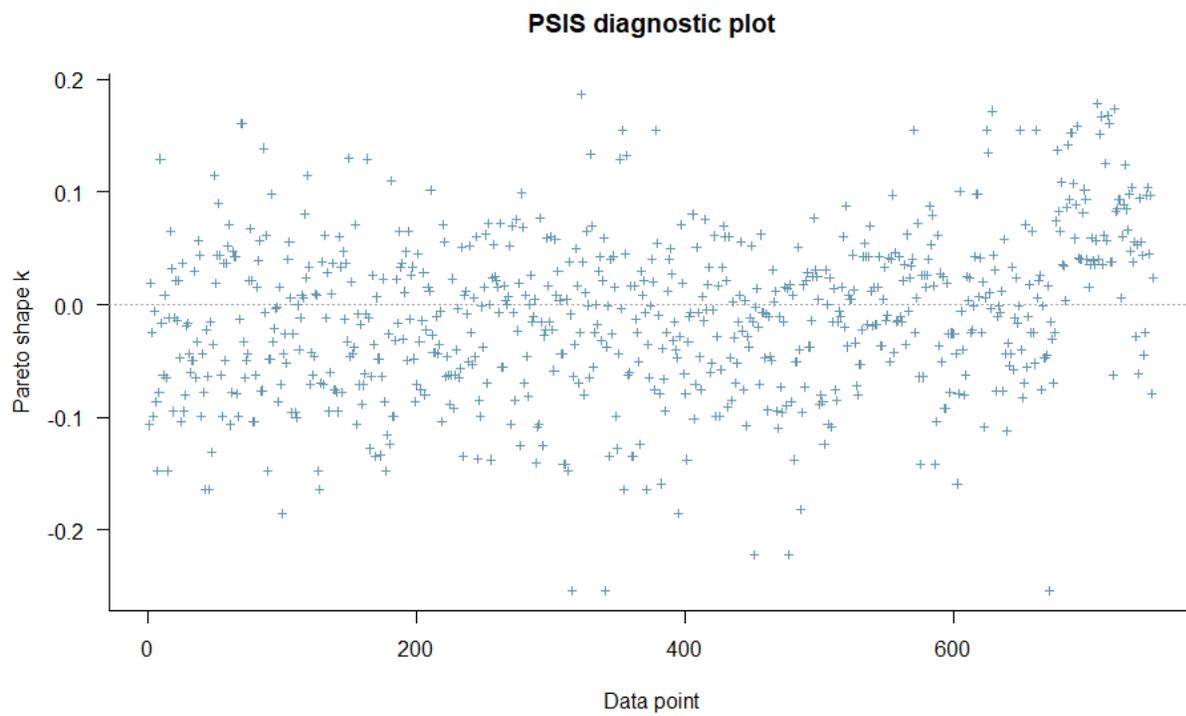


Figure S8.7: PSIS diagnostic plot for model 8.

Marginal predictive distribution

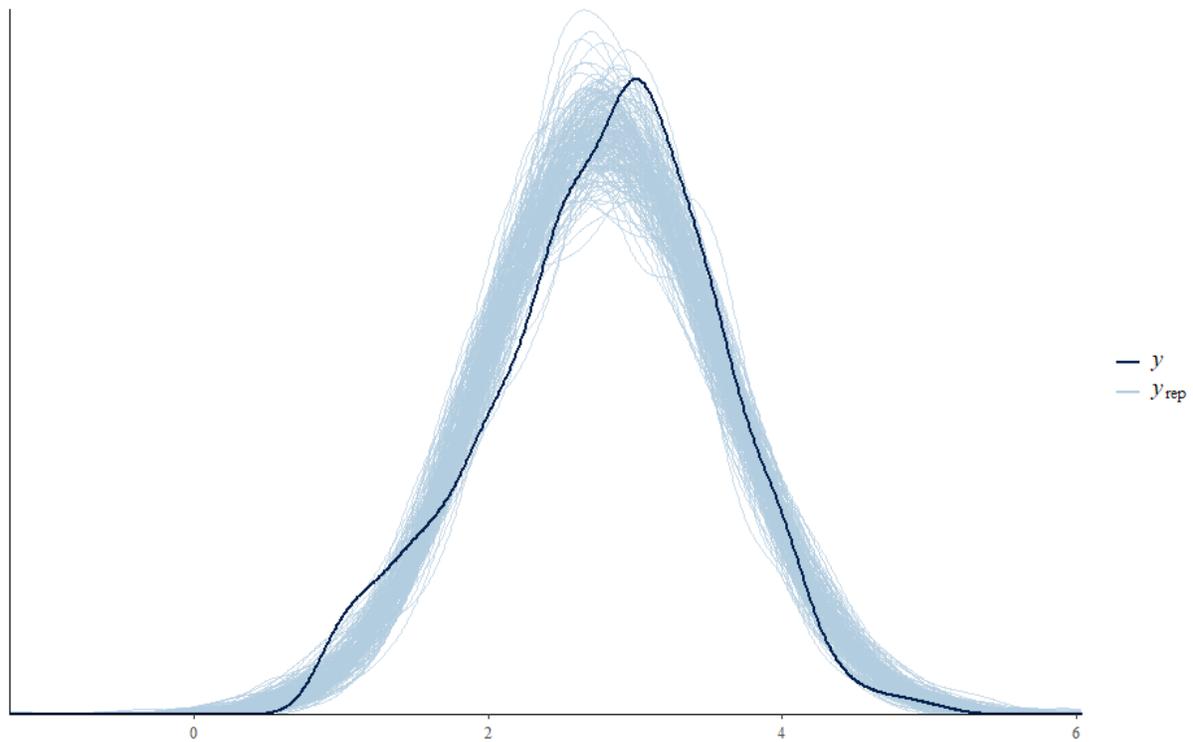


Figure S8.8: Marginal predictive distribution for model 8.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-867.6	18.6
p_waic	10.9	0.7
waic	1735.3	37.1

Model 9

Equation:

$$\begin{aligned} \text{Attitude} \sim & \text{Familiarity} + \text{Income} + \text{SchoolYear} + \text{Sex} + \text{Major} + \text{Christianity} + \text{Islam} \\ & + \text{Buddhism} + \text{Christianity_Religiosity} + \text{Islam_Religiosity} \\ & + \text{Buddhism_Religiosity} \end{aligned}$$

Where

- *Attitude* is attitude towards emotional AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);
- *Religiosity* is the level of respondent's religiosity (ordinal/continuous variable);
- *Buddhism_Religiosity* is interaction between *Buddhism* and *Religiosity* so that $\text{Buddhism_Religiosity} = \text{Buddhism} * \text{Religiosity}$ (continuous variable);
- *Christianity_Religiosity* is interaction between *Christianity* and *Religiosity* so that $\text{Christianity_Religiosity} = \text{Christianity} * \text{Religiosity}$ (continuous variable);
- *Islam_Religiosity* is interaction between *Islam* and *Religiosity* so that $\text{Islam_Religiosity} = \text{Islam} * \text{Religiosity}$ (continuous variable).

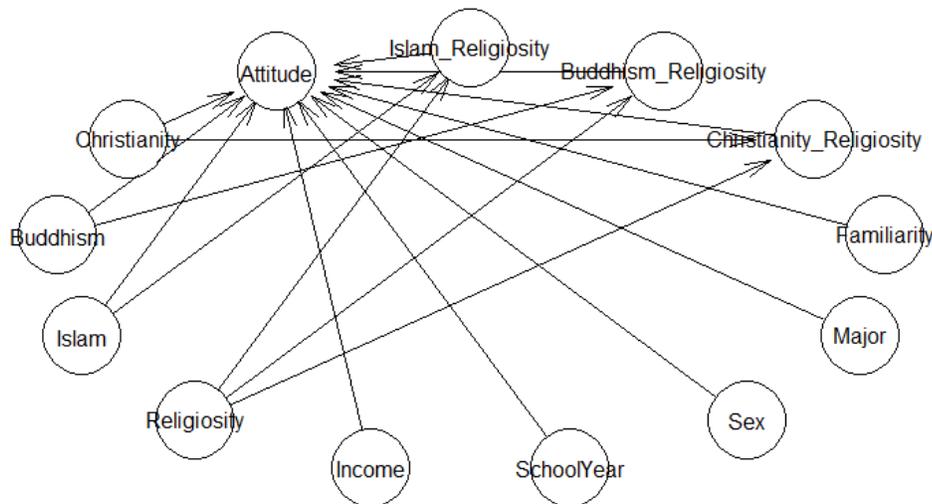


Figure S9.0: Visualization of model 9.

Table S9.1: Posterior estimate of model 9

	Mean	SD	n_eff	Rhat
a_Attitude	1.69	0.19	6592	1
b_Christianity_Attitude	-0.15	0.09	10059	1
b_Christianity_Religiosity_Attitude	-0.05	0.17	11374	1
b_Buddhism_Attitude	-0.08	0.07	9220	1
b_Buddhism_Religiosity_Attitude	-0.25	0.19	12161	1
b_Islam_Attitude	-0.29	0.10	9025	1
b_Islam_Religiosity_Attitude	-0.18	0.17	10528	1
b_Income_Attitude	0.15	0.06	8215	1
b_SchoolYear_Attitude	0.05	0.03	11532	1
b_Sex_Attitude	0.11	0.06	10145	1
b_Major_Attitude	0.12	0.06	13052	1
b_Familiarity_Attitude	0.18	0.04	10546	1

Monte Carlo SE of elpd_loo is 0.0.
 All Pareto k estimates are good ($k < 0.5$).

Posterior Diagnostics

Trace plot diagnostic

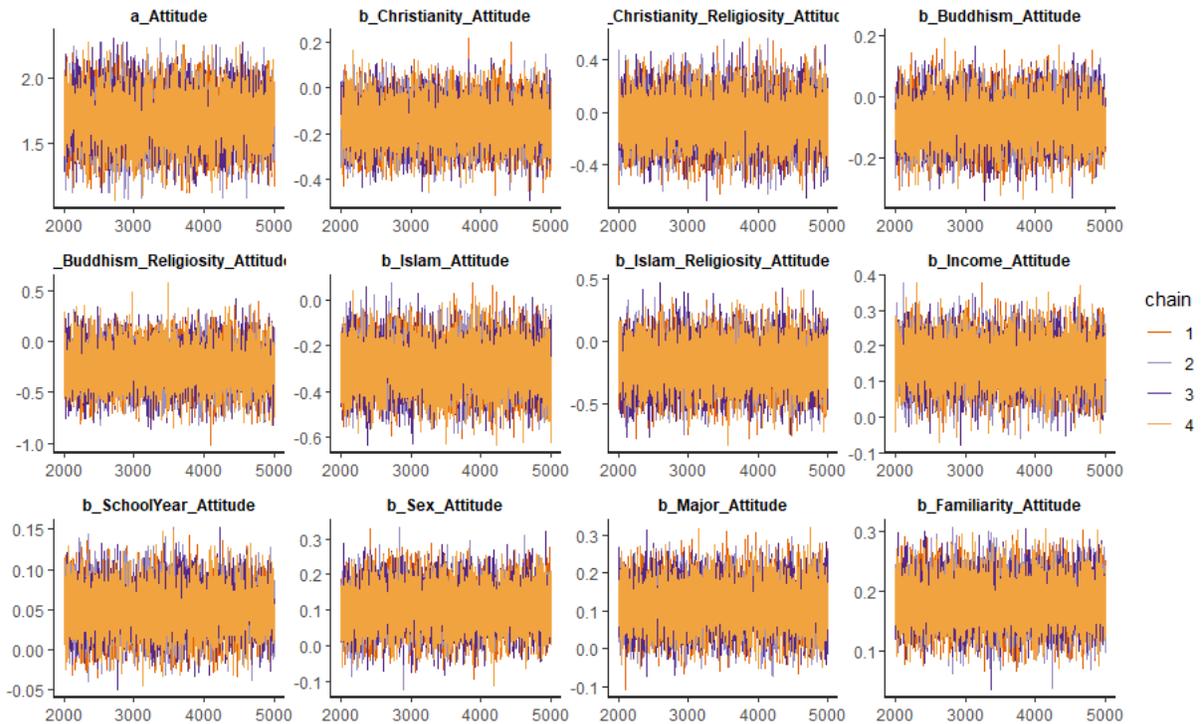


Figure S9.1: Trace plot diagnostic for model 9.

Gelman diagnostic

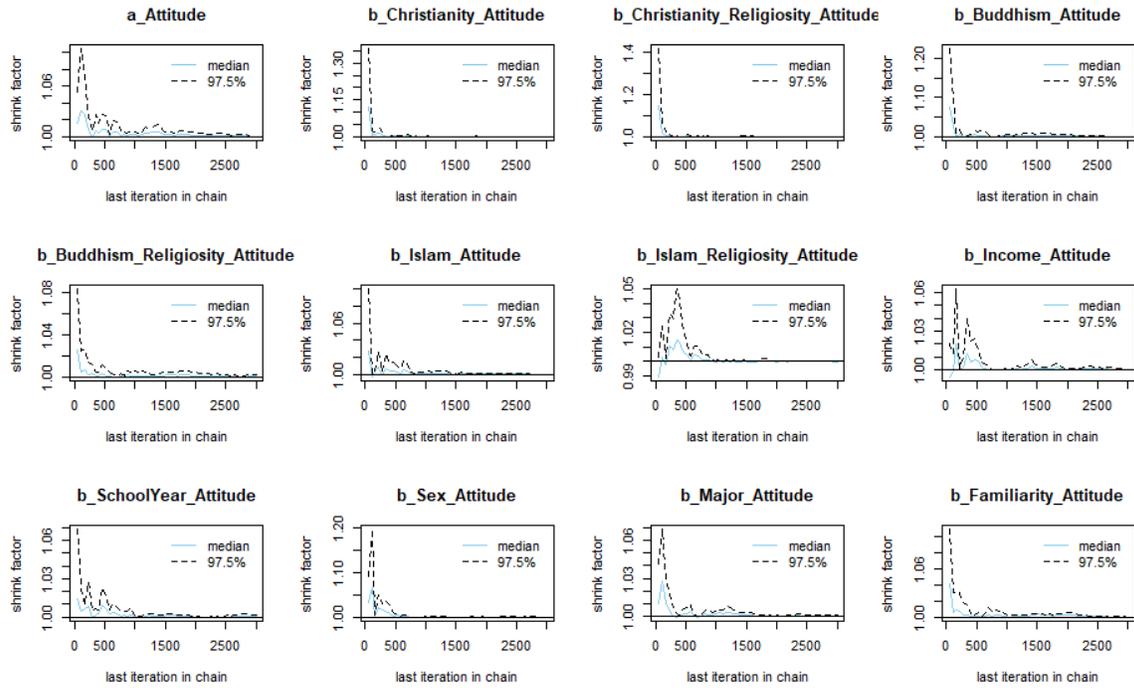


Figure S9.2: Gelman diagnostic for model 9.

ACF diagnostic

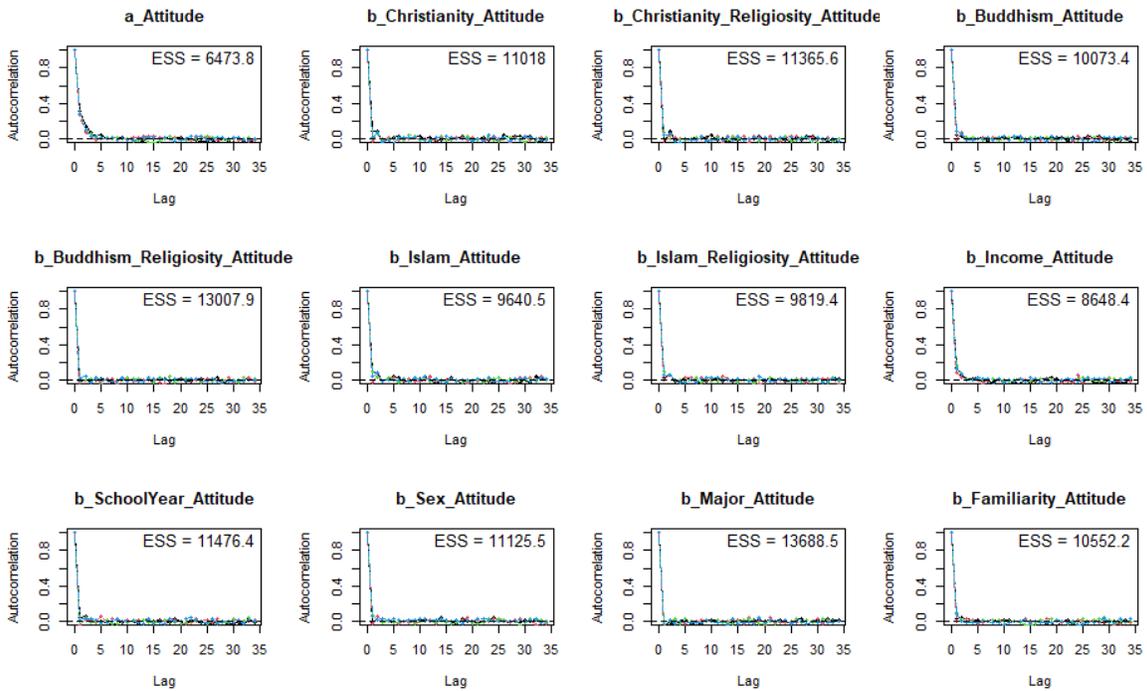


Figure S9.3: ACF diagnostic for model 9.

Posterior results
Interval distribution

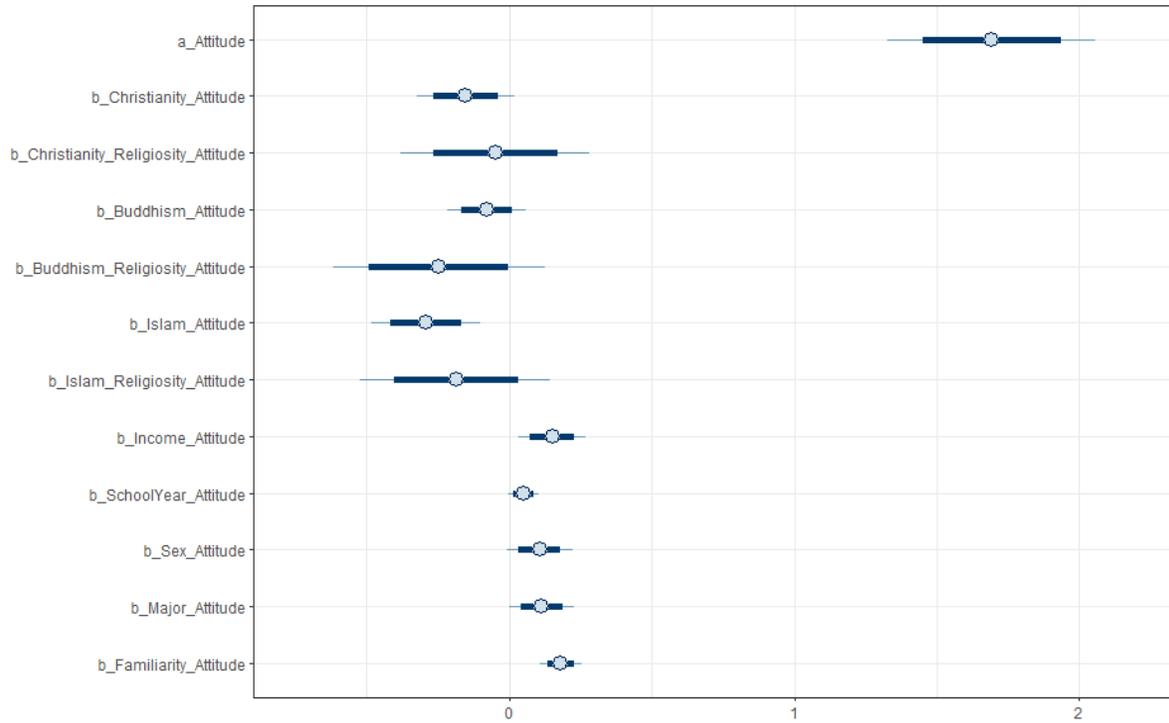


Figure S9.4: Model 9's posterior interval distribution for all explanatory variables.

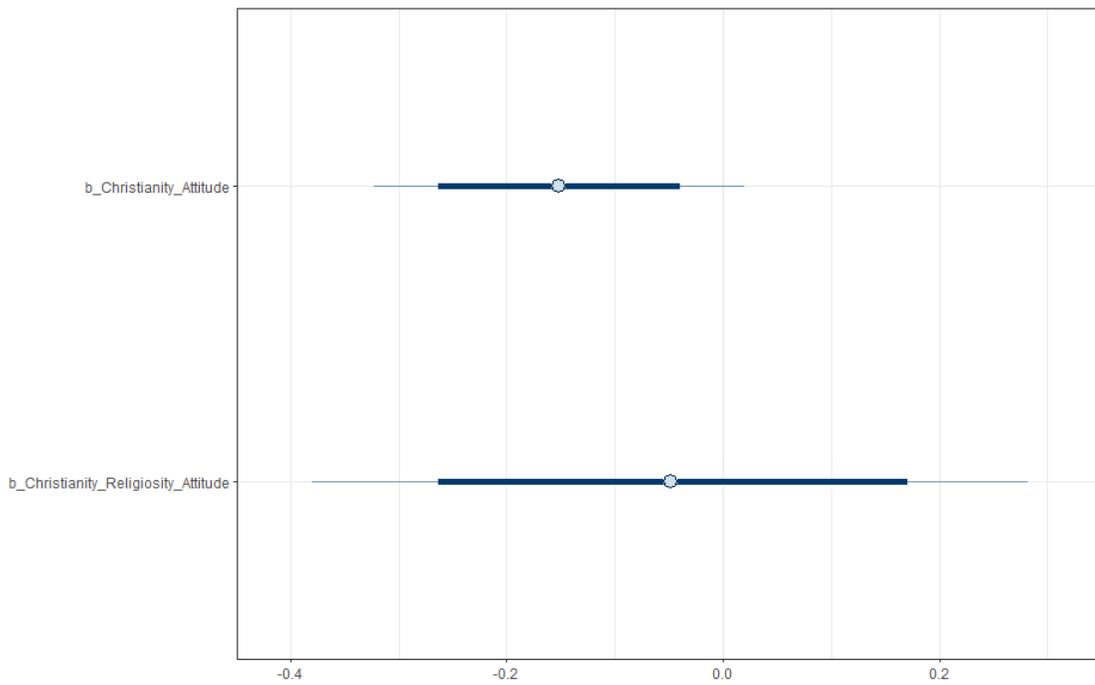


Figure S9.5: Model 9's posterior interval distribution for the interaction between the Buddhism and Religiosity variables.

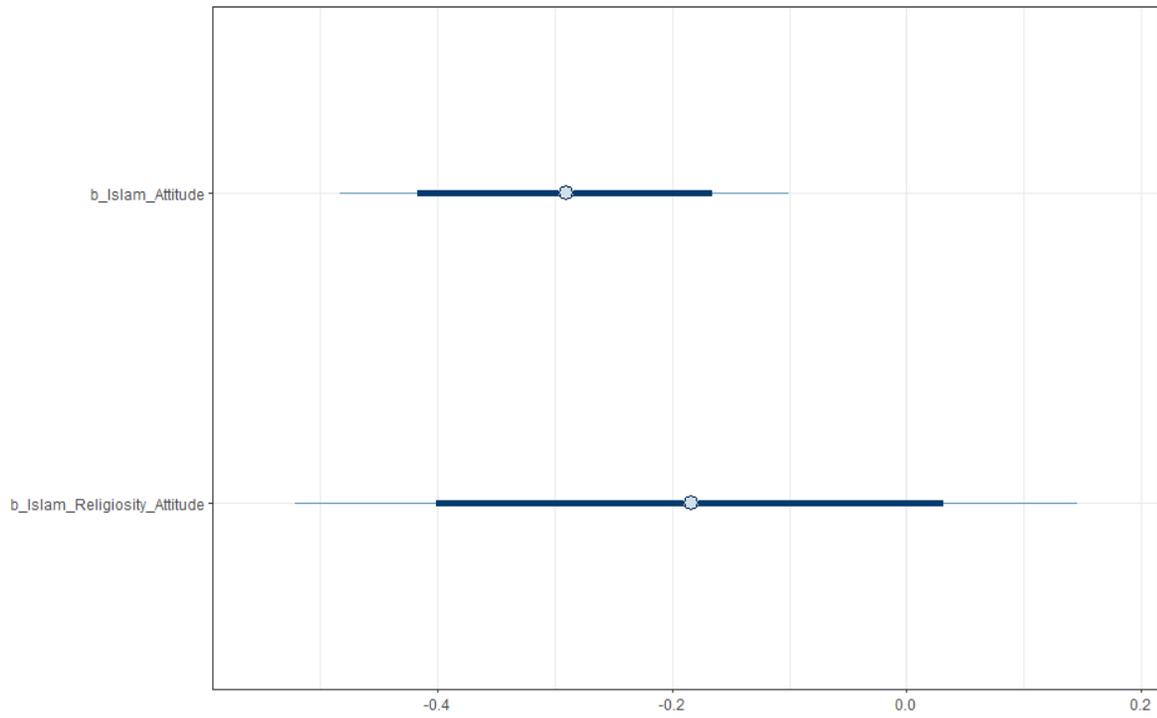


Figure S9.6: Model 9's posterior interval distribution for the interaction between the Islam and Religiosity variables.

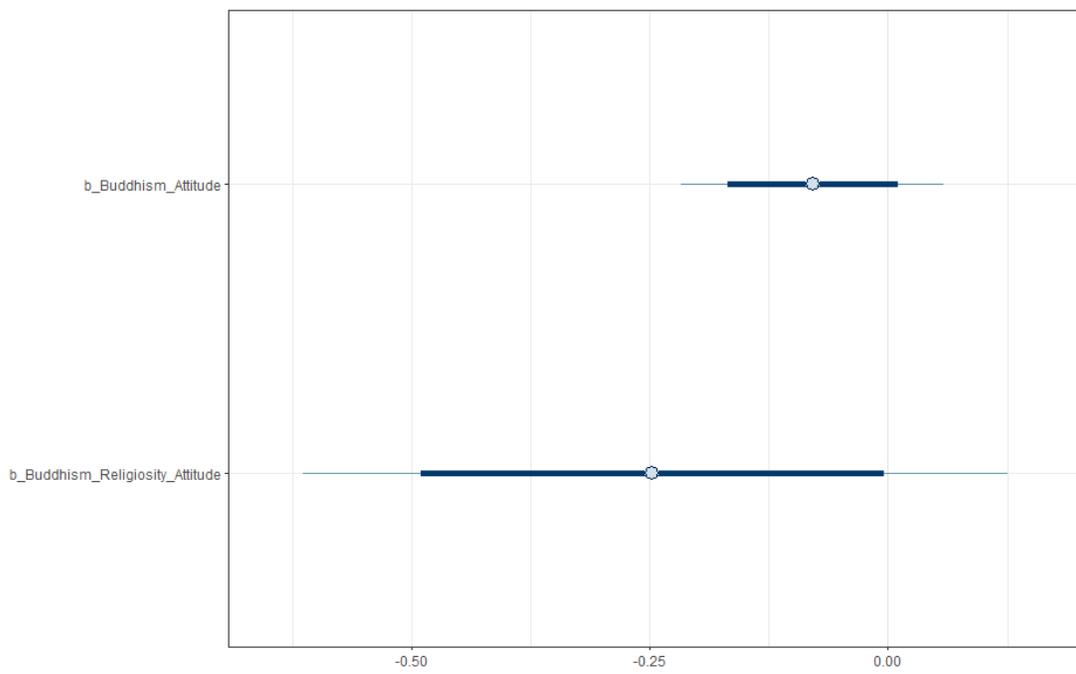


Figure S9.7: Model 9's posterior interval distribution for the interaction between the Buddhism and Religiosity variables.

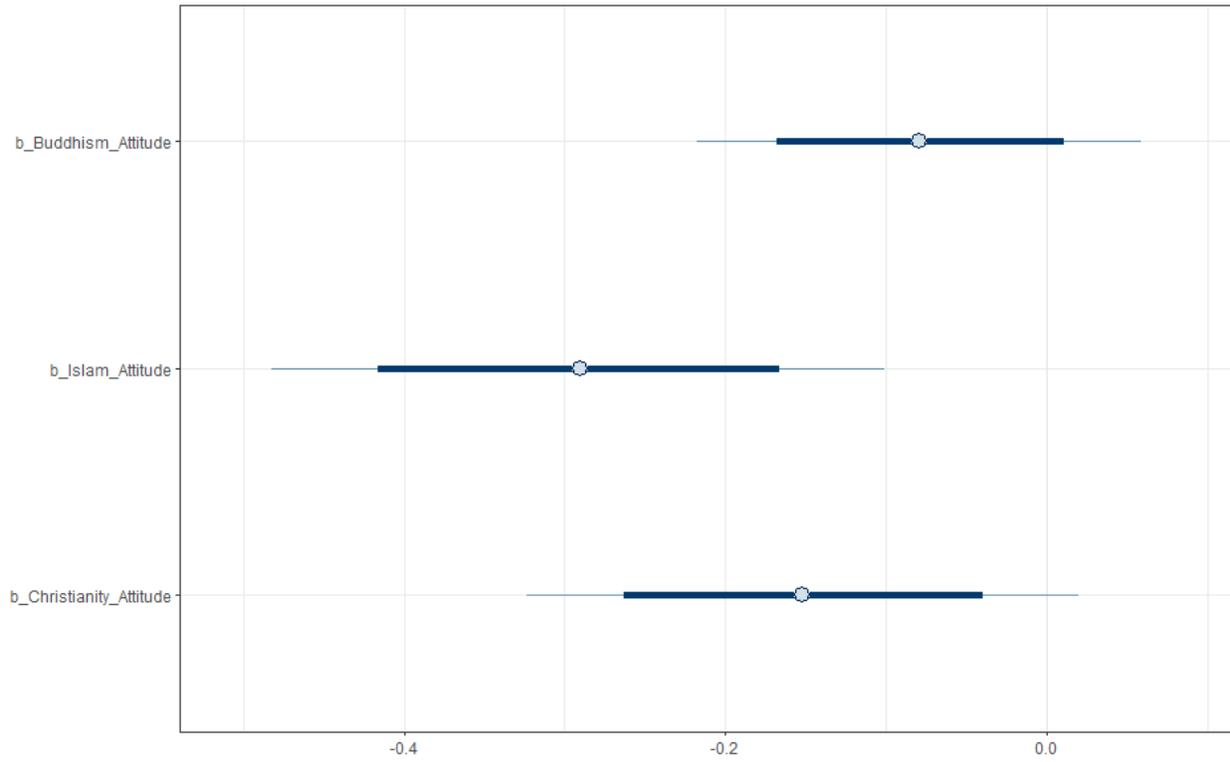


Figure S9.8: Model 9's posterior interval distribution for the three religions as the predictor of the attitude.

Density distribution

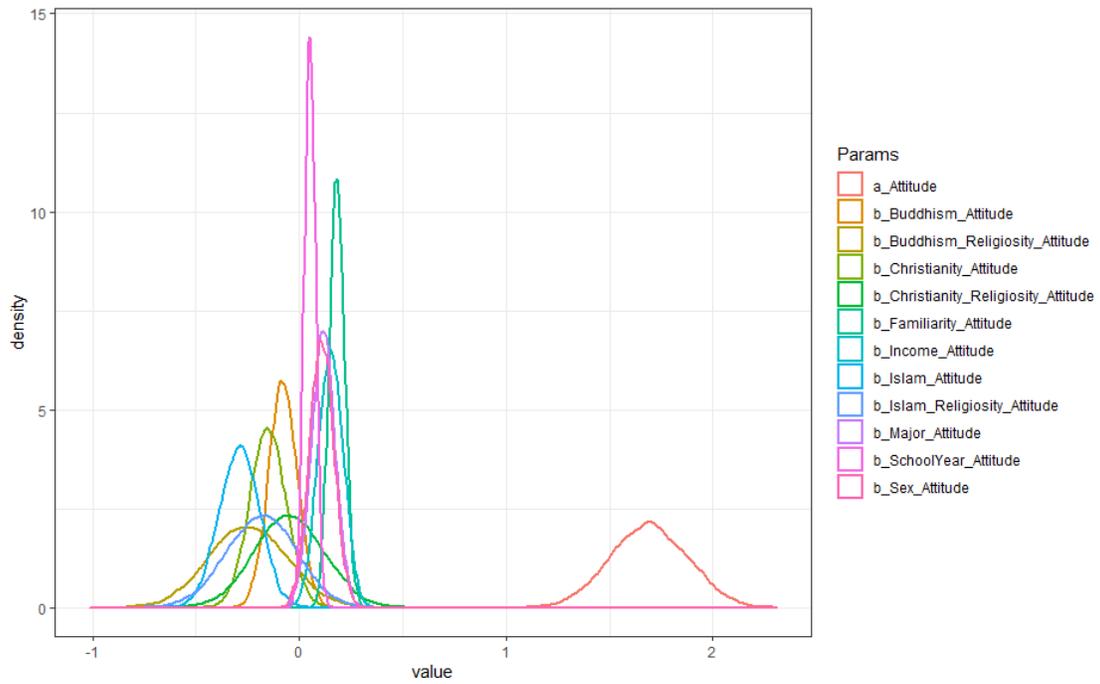


Figure S9.8: Model 9's posterior density distribution for all explanatory variables.

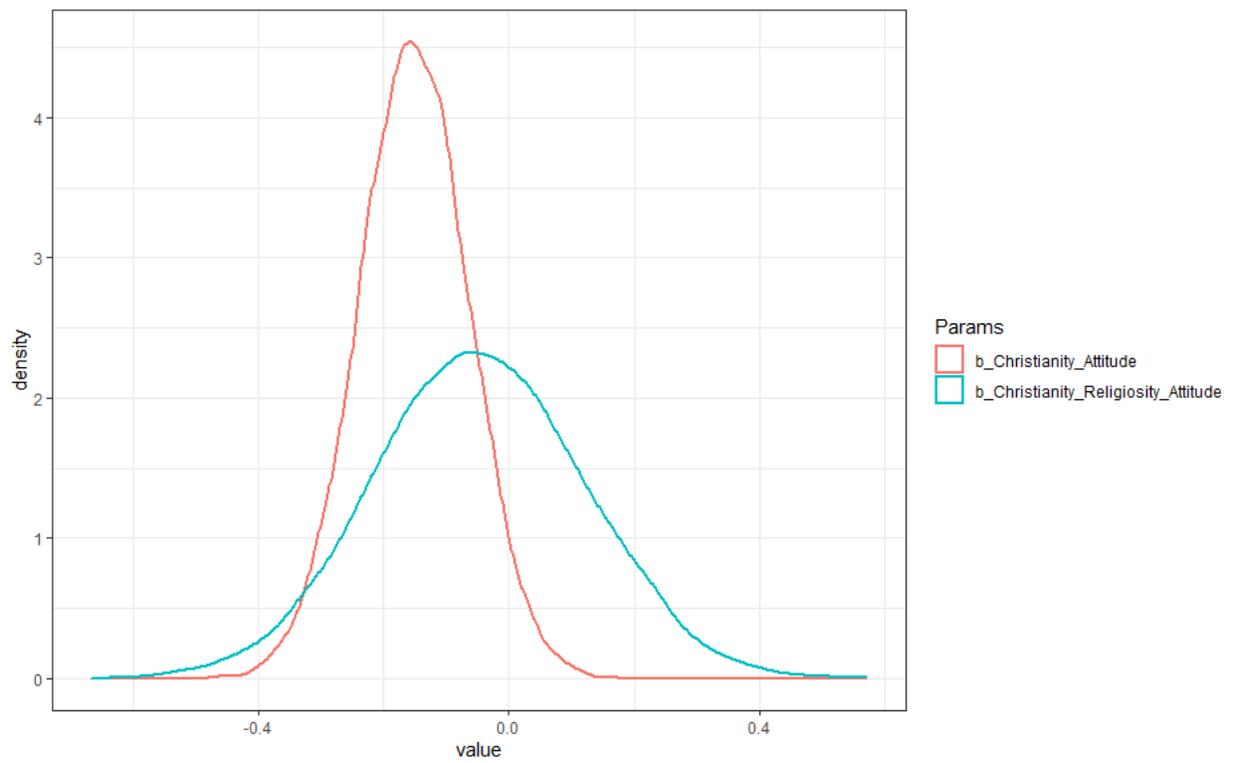


Figure S9.10: Model 9's posterior density distribution for the interaction between the Christianity and Religiosity variables.

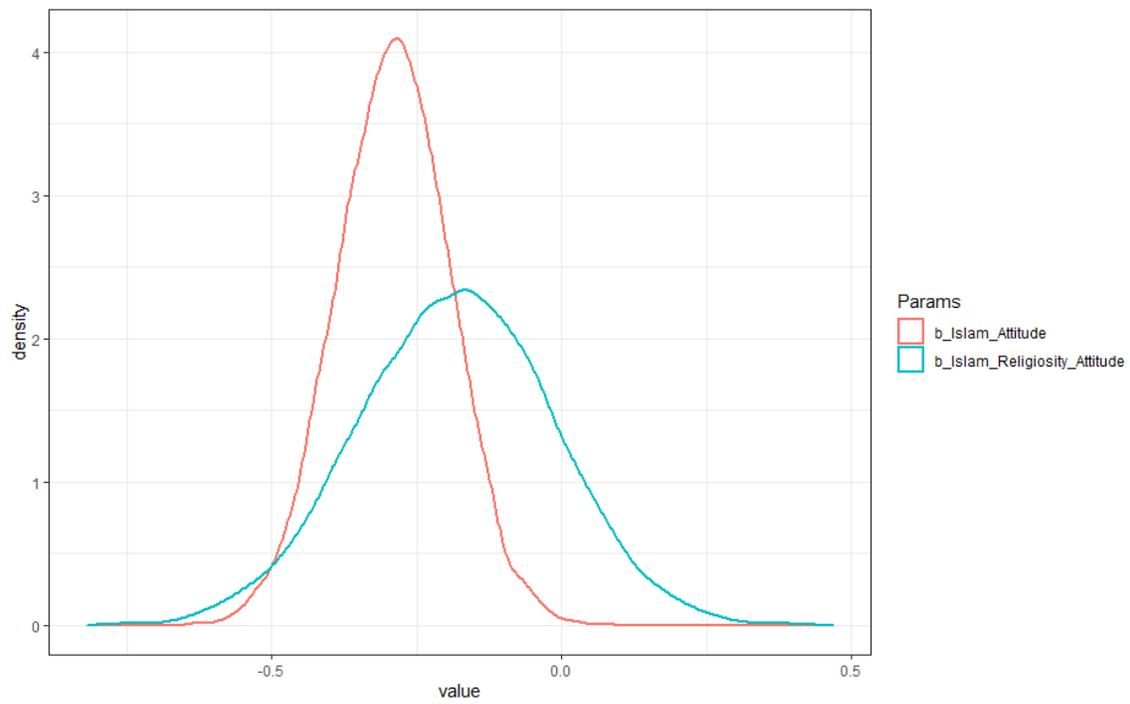


Figure S9.11: Model 9's posterior density distribution for the interaction between the Islam and Religiosity variables.

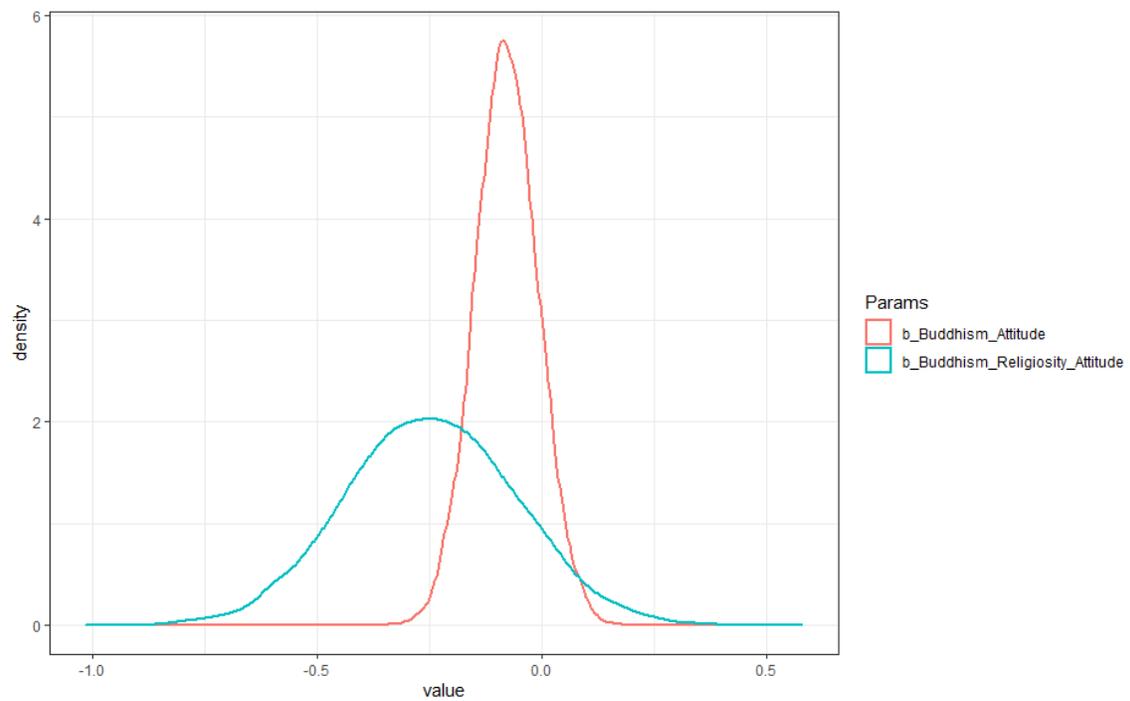


Figure S9.12: Model 9's posterior density distribution for the interaction between the Buddhism and Religiosity variables.

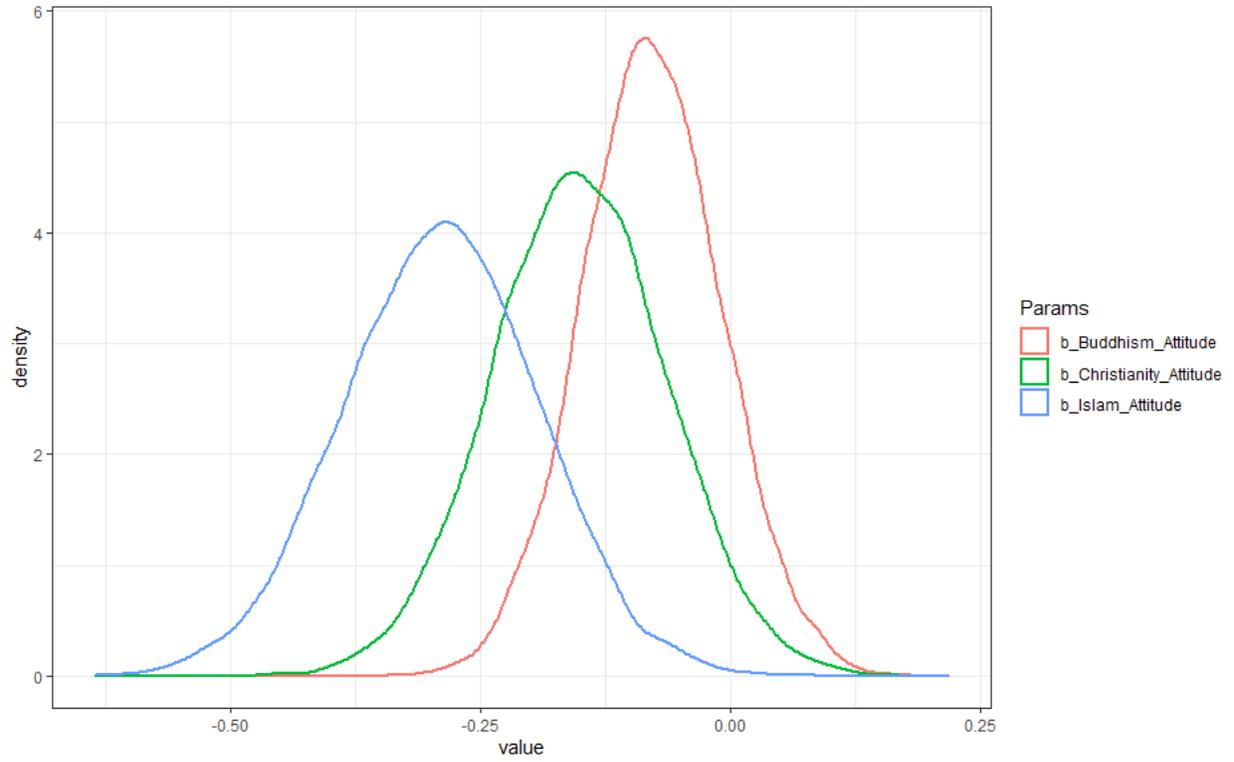


Figure S9.13: Model 9's posterior density distribution for the three religions as the predictor of the attitude toward the AI managers.

Density distribution with HPDI

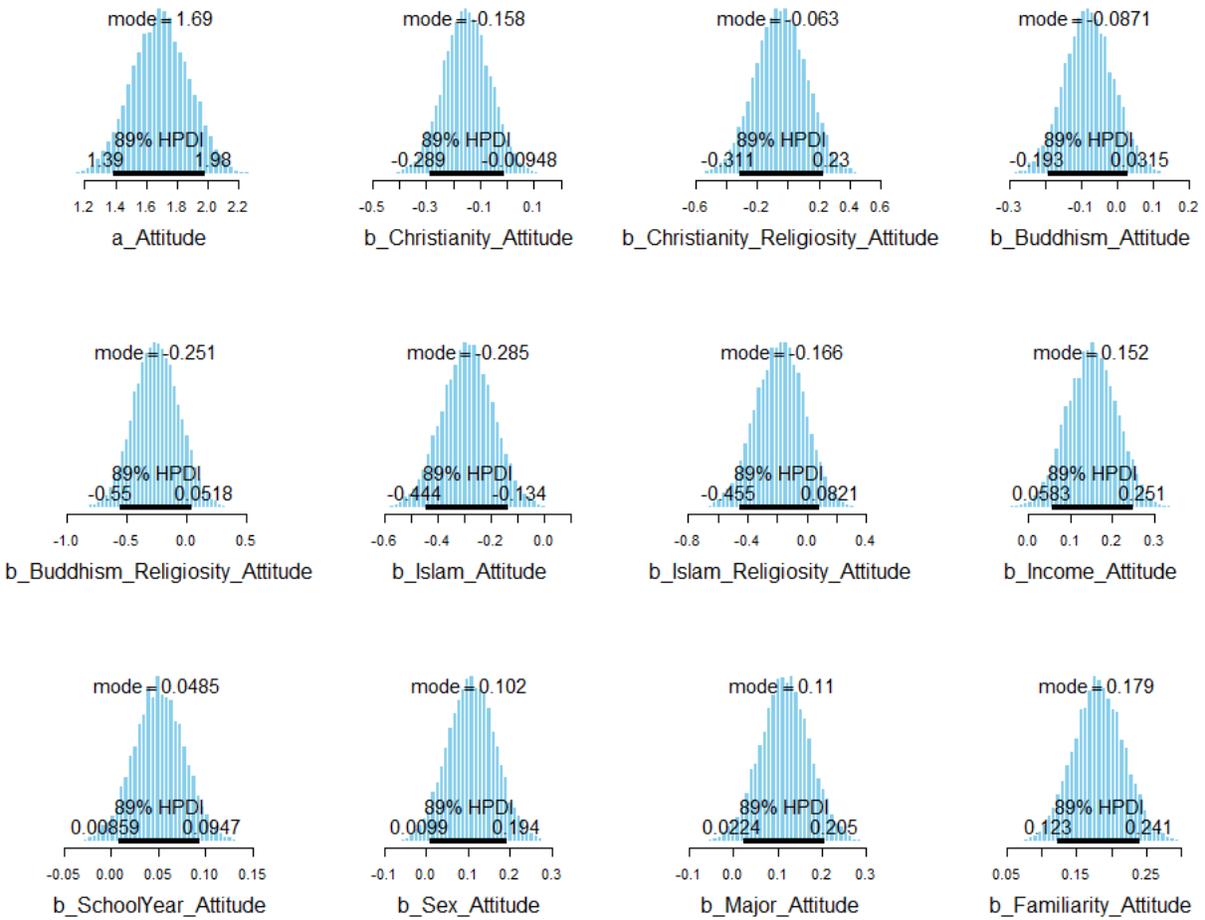


Figure S9.14: Model 9's density distribution with HDPI for all the explanatory variables.

Model Fit Diagnostic

Loo test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
e _l pd_loo	-851.0	19.2
p_loo	13.0	0.9
looic	1702.0	38.3

 Monte Carlo SE of e_lpd_loo is 0.0.

All Pareto k estimates are good (k < 0.5).
 see `help('pareto-k-diagnostic')` for details.

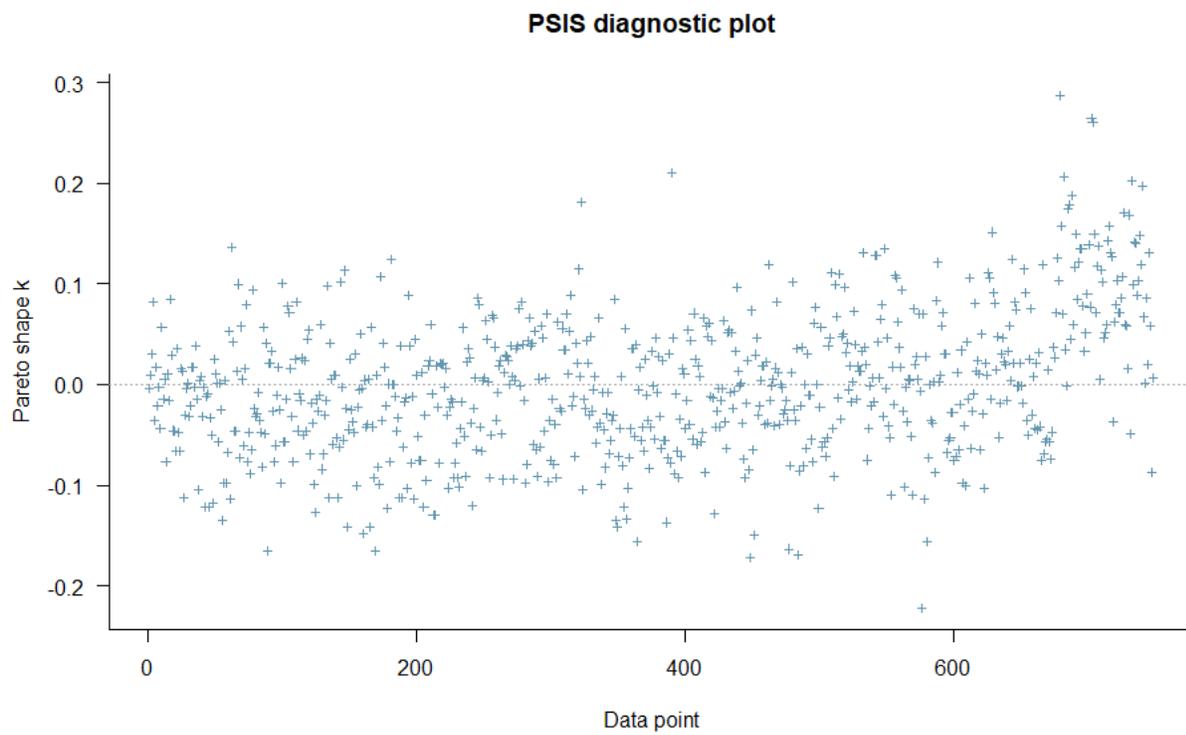


Figure S9.15: PSIS diagnostic plot for model 9.

Marginal predictive distribution

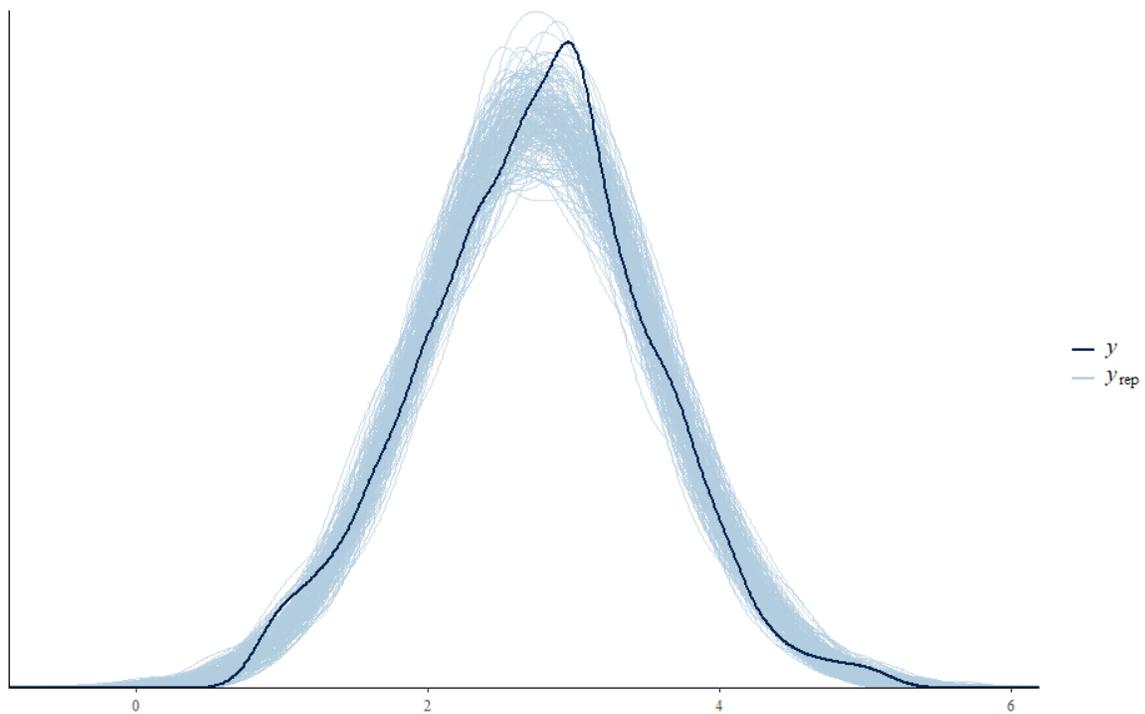


Figure S9.16: Marginal predictive distribution for model 9.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-851.0	19.2
p_waic	13.0	0.9
waic	1701.9	38.3

Model 10

Equation:

$$\begin{aligned} \text{Attitude} \sim & \alpha[\text{Region}_{\text{variant}}] + \text{Familiarity} + \text{Income} + \text{SchoolYear} + \text{Sex} + \text{Major} \\ & + \text{Christianity} + \text{Islam} + \text{Buddhism} + \text{Christianity_Religiosity} \\ & + \text{Islam_Religiosity} + \text{Buddhism_Religiosity} \end{aligned}$$

Where

- *Region* is the region where the respondent is from (categorical variable);
- *Attitude* is attitude towards emotional AI (continuous variable);
- *Christianity* is whether the respondent's religion is Christianity (binary variable);
- *Islam* is whether the respondent's religion is Islam (binary variable);
- *Buddhism* is whether the respondent's religion is Buddhism (binary variable);
- *Religiosity* is the level of respondent's religiosity (ordinal/continuous variable);
- *Buddhism_Religiosity* is interaction between *Buddhism* and *Religiosity* so that $\text{Buddhism_Religiosity} = \text{Buddhism} * \text{Religiosity}$ (continuous variable);
- *Christianity_Religiosity* is interaction between *Christianity* and *Religiosity* so that $\text{Christianity_Religiosity} = \text{Christianity} * \text{Religiosity}$ (continuous variable);
- *Islam_Religiosity* is interaction between *Islam* and *Religiosity* so that $\text{Islam_Religiosity} = \text{Islam} * \text{Religiosity}$ (continuous variable).

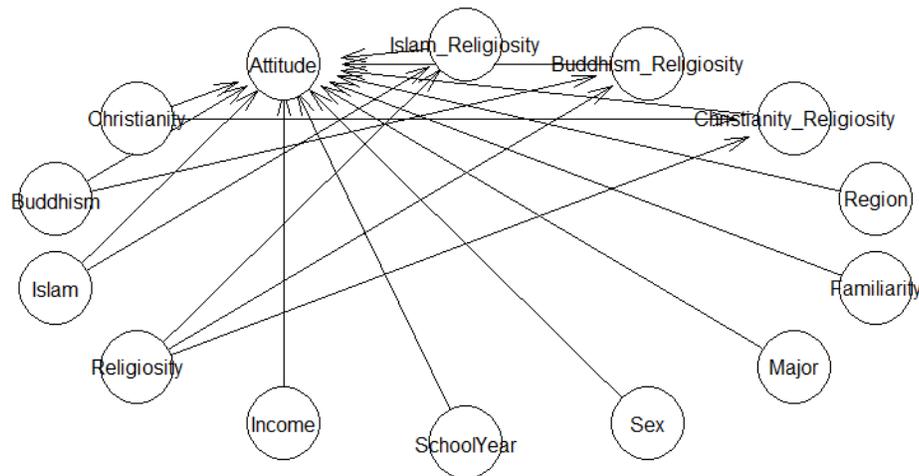


Figure S10.0: Visualization of model 10.

Table S10.1: Posterior estimate of model 10

	Mean	SD	n_eff	Rhat
a_Attitude	1.61	0.35	6744	1
b_Christianity_Attitude	-0.10	0.09	9854	1
b_Christianity_Religiosity_Attitude	-0.05	0.17	10445	1
b_Buddhism_Attitude	-0.05	0.07	10545	1
b_Buddhism_Religiosity_Attitude	-0.15	0.19	10186	1
b_Islam_Attitude	-0.16	0.10	9251	1
b_Islam_Religiosity_Attitude	-0.24	0.18	9074	1
b_Income_Attitude	0.12	0.06	9551	1
b_SchoolYear_Attitude	0.06	0.03	11553	1
b_Sex_Attitude	0.09	0.06	9601	1
b_Major_Attitude	0.13	0.06	12210	1
b_Familiarity_Attitude	0.21	0.04	9532	1
a_Region[Africa]	1.70	0.26	6458	1
a_Region[Central Asia]	1.75	0.24	10214	1
a_Region[Eastern Asia]	1.78	0.18	9138	1
a_Region[Europe]	1.36	0.26	8058	1
a_Region[Northern America]	1.53	0.24	8558	1
a_Region[South-Eastern Asia]	1.58	0.19	9271	1
a_Region[Southern Asia]	1.51	0.20	8872	1
a_Region[Oceania]	1.70	0.26		
<i>Monte Carlo SE of elpd_loo is 0.0.</i>				
<i>All Pareto k estimates are good (k < 0.5).</i>				

Posterior Diagnostics

Trace plot diagnostic

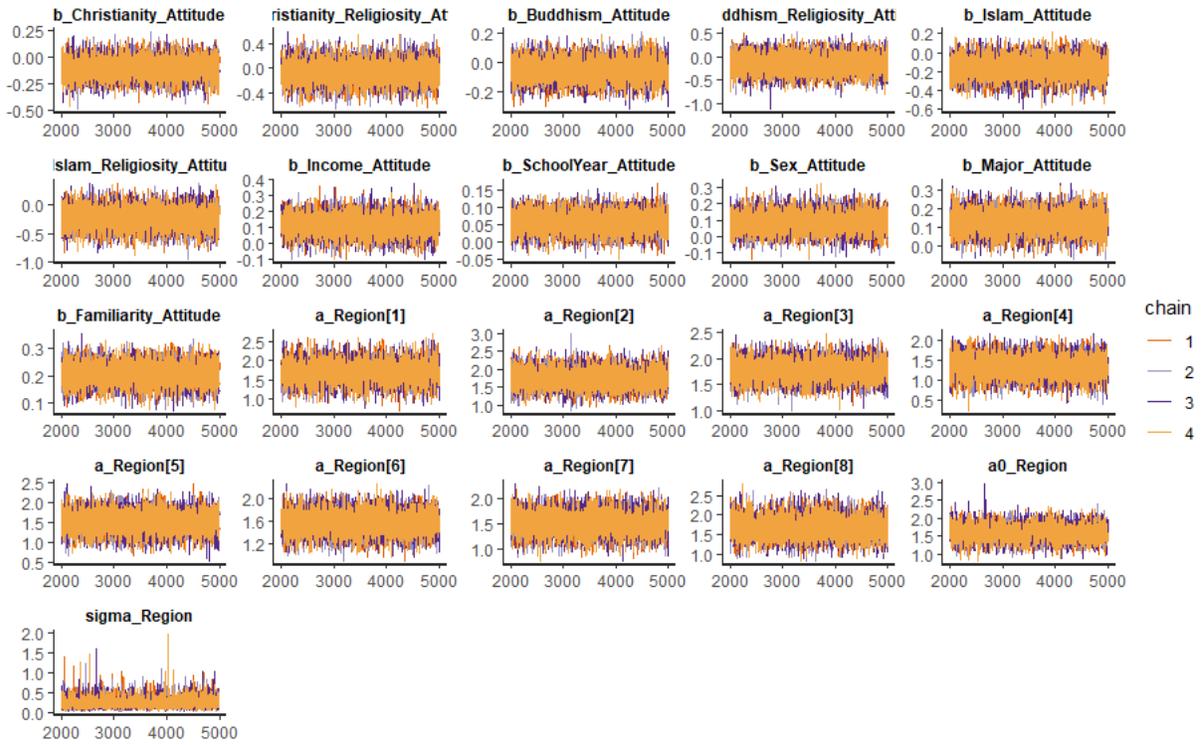


Figure S10.1: Trace plot diagnostic for model 10.

Gelman diagnostic

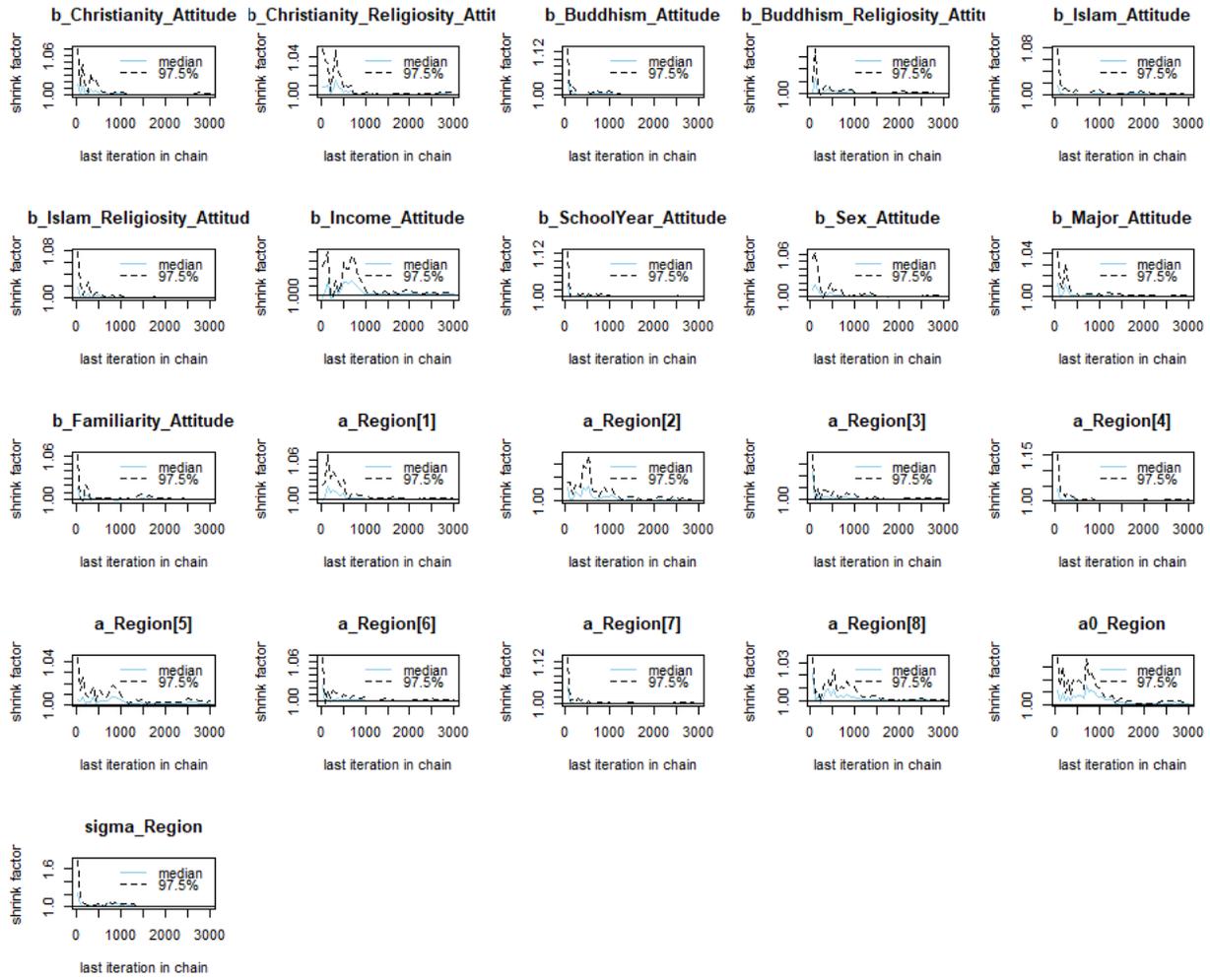


Figure S10.2: Gelman diagnostic for model 10.

ACF diagnostic

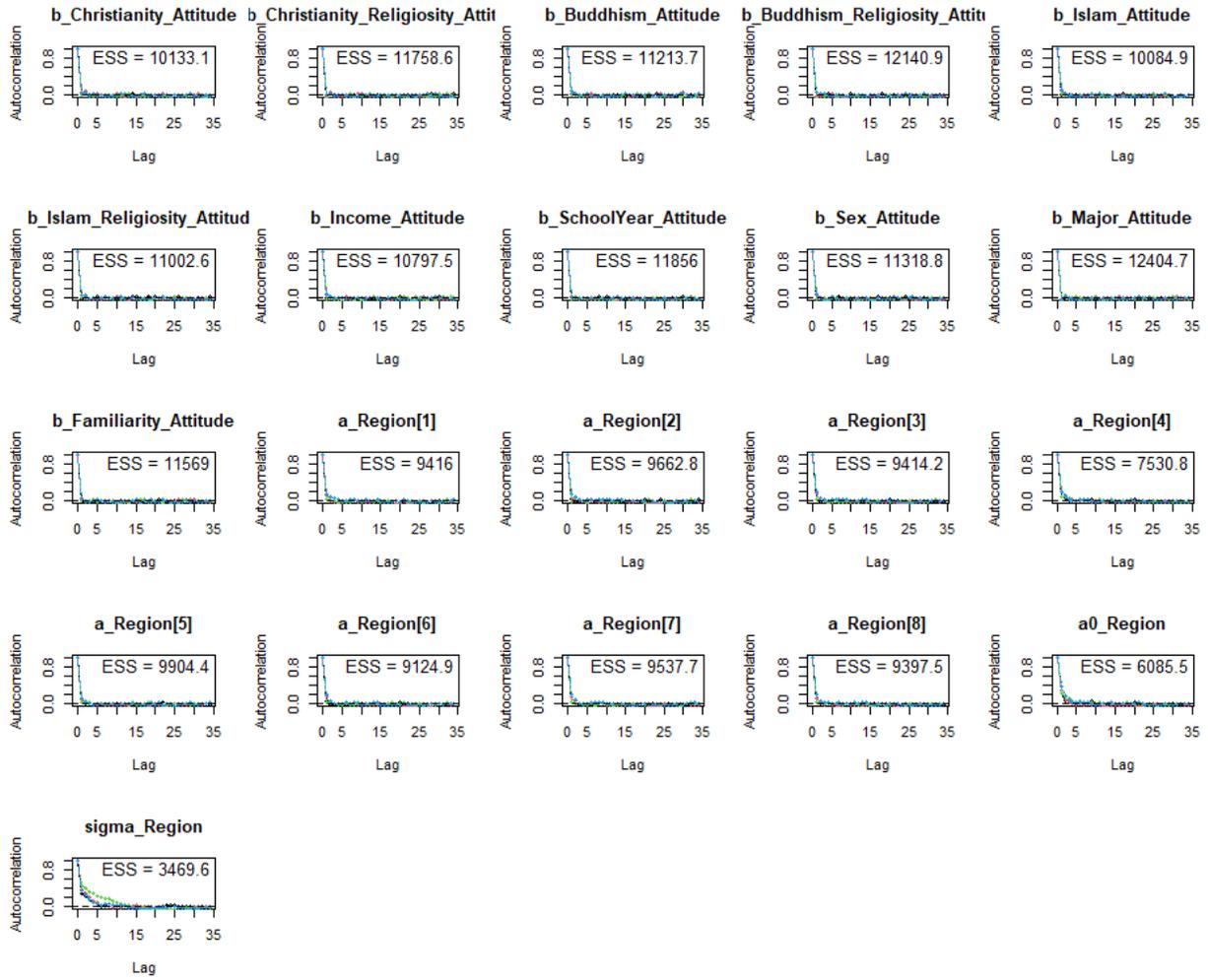


Figure S10.3: ACF diagnostic for model 10.

Posterior results
Interval distribution

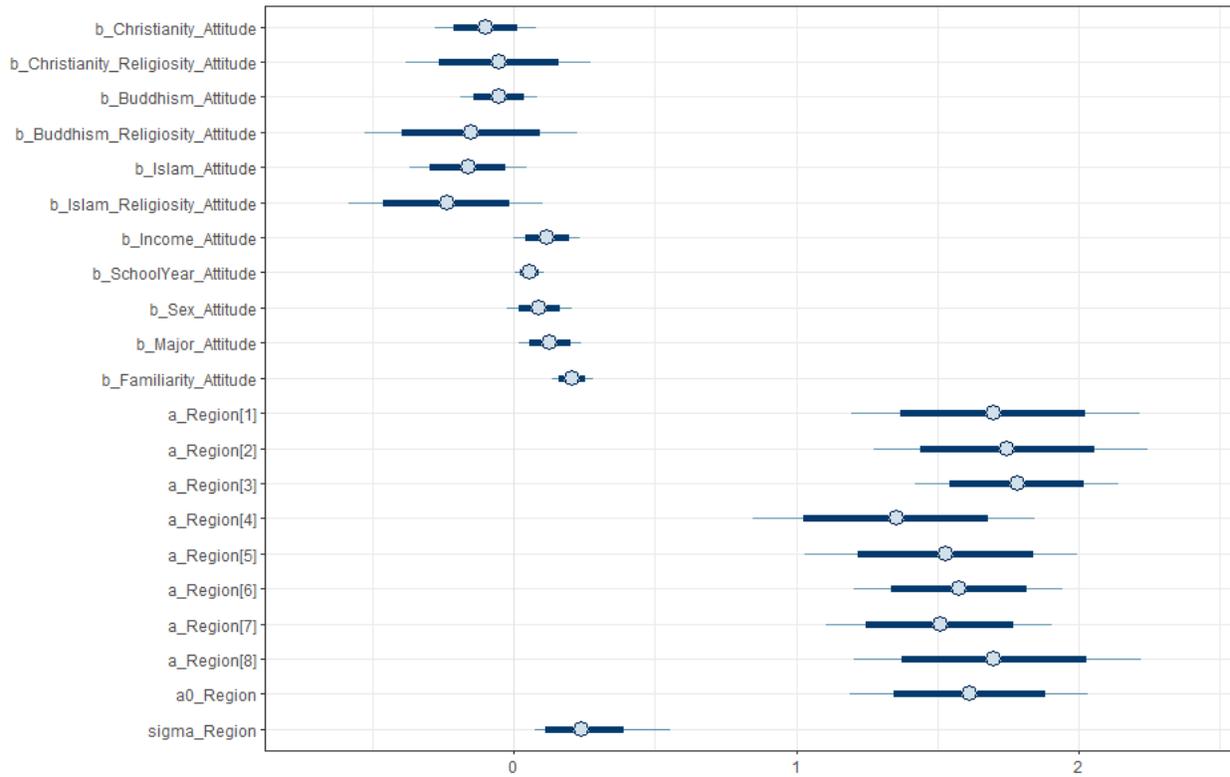


Figure S10.4: Model 10's posterior interval distribution for all explanatory variables.

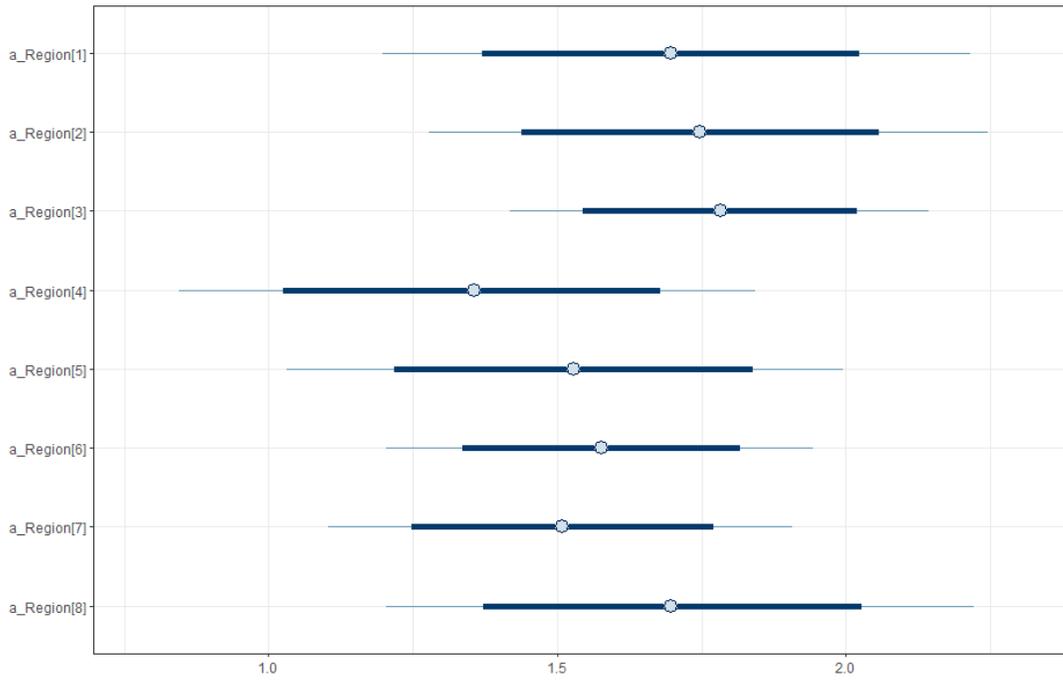


Figure S10.5: Model 10's posterior interval distribution for the Regions variable.

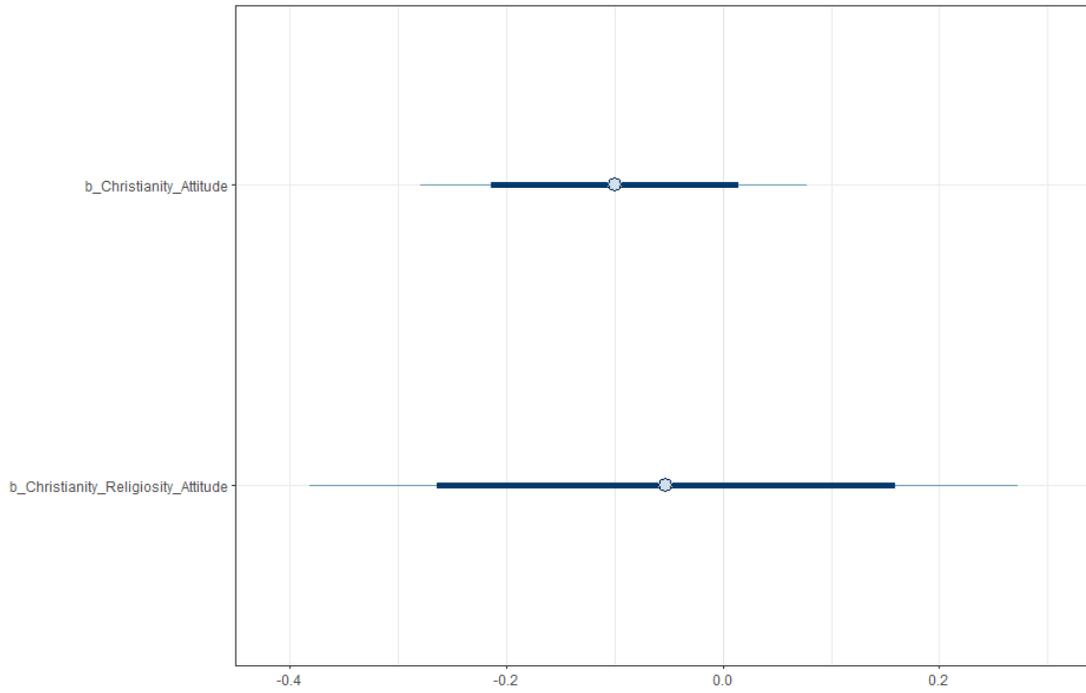


Figure S10.6: Model 10's posterior interval distribution for the interaction between the Christianity and Religiosity variables.

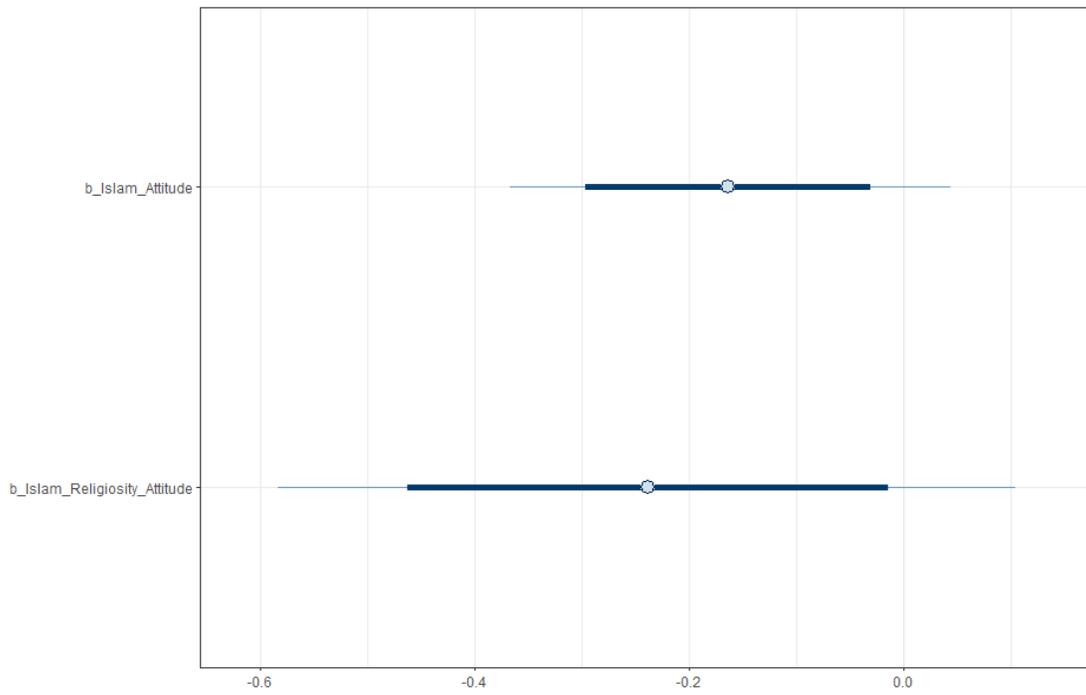


Figure S10.7: Model 10's posterior interval distribution for the interaction between the Islam and Religiosity variables.

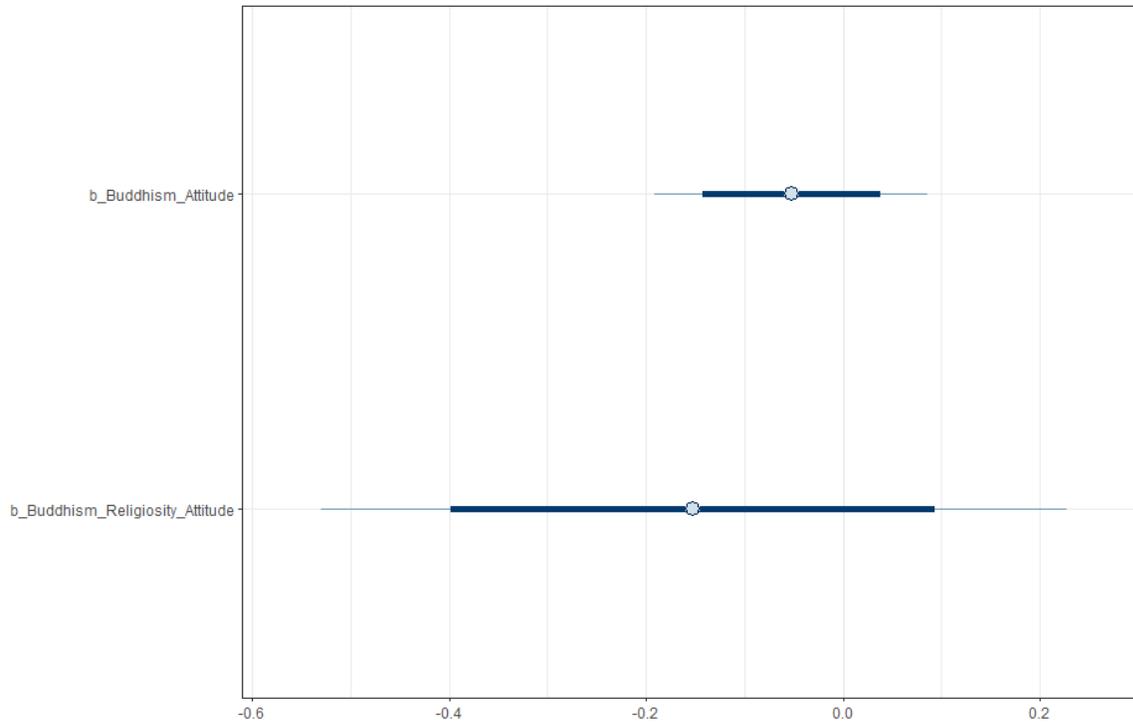


Figure S10.8: Model 10's posterior interval distribution for the interaction between the Buddhism and Religiosity variables.

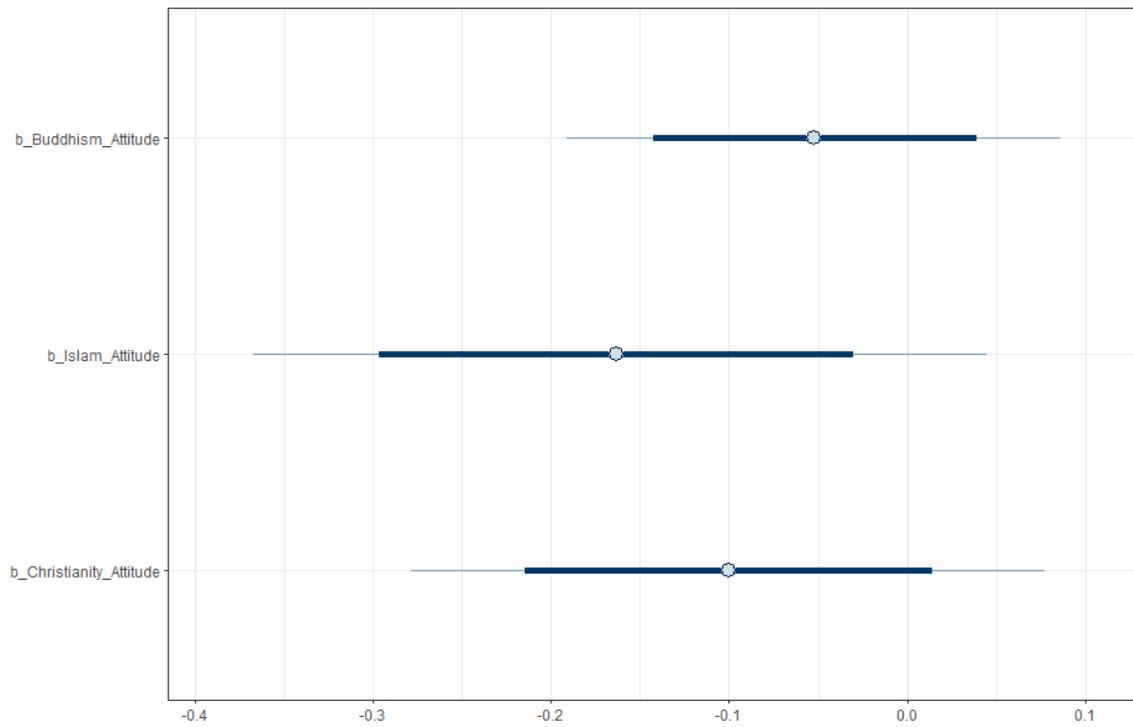


Figure S10.9: Model 10's posterior interval distribution for the three religions as the predictor of the attitude.

Density distribution

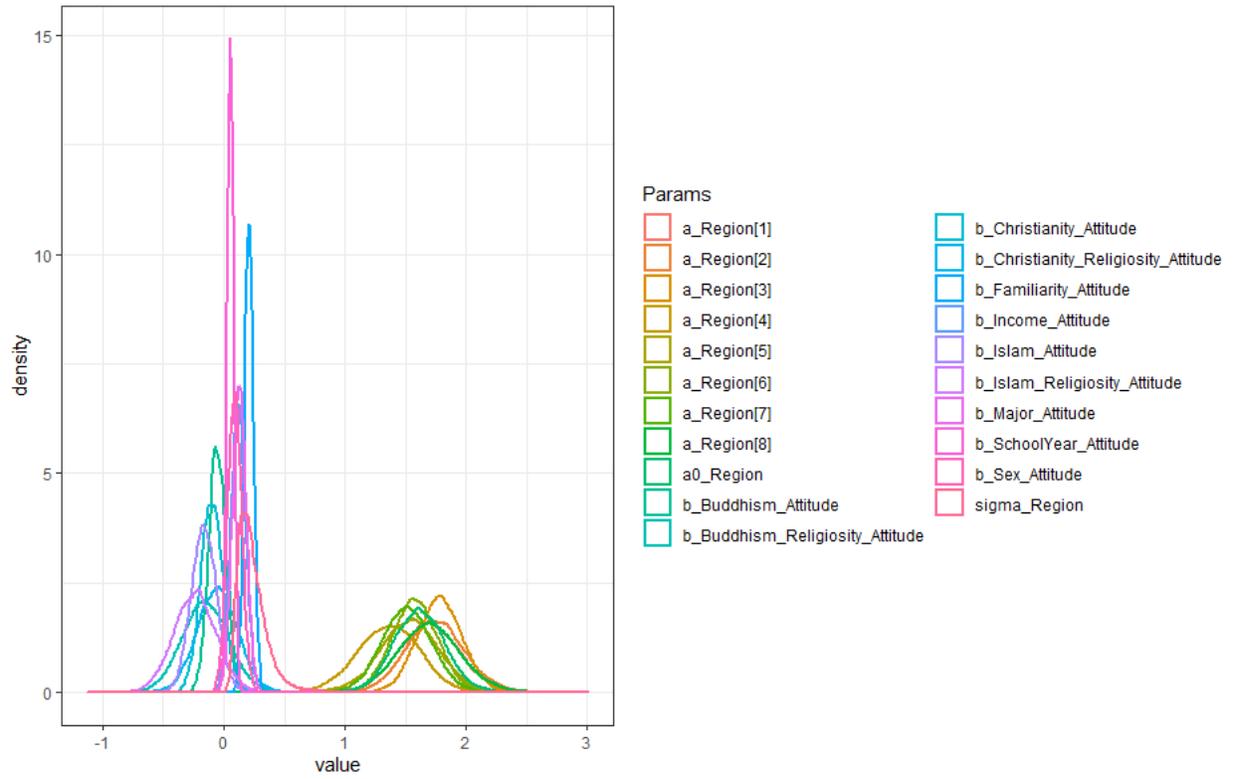


Figure S10.10: Model 10's posterior density distribution for all explanatory variables.

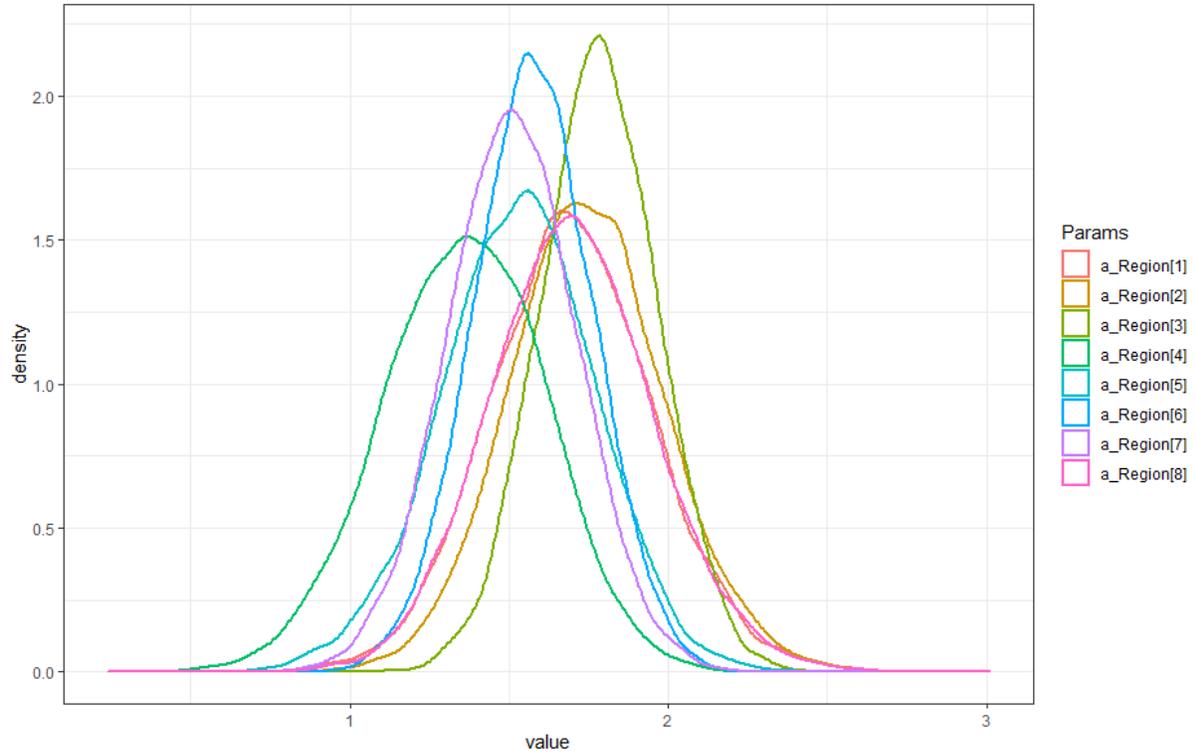


Figure S10.11: Model 10's posterior density distribution for all regions.

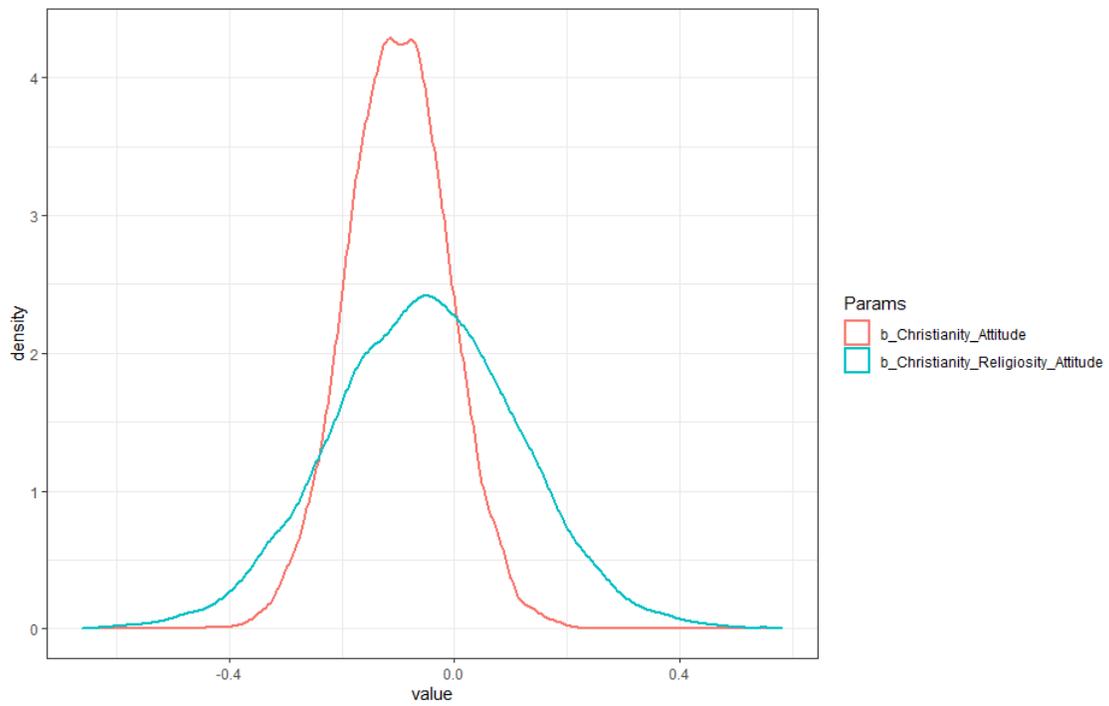


Figure S10.12: Model 10's posterior density distribution for the interaction between the Christianity and Religiosity variables.

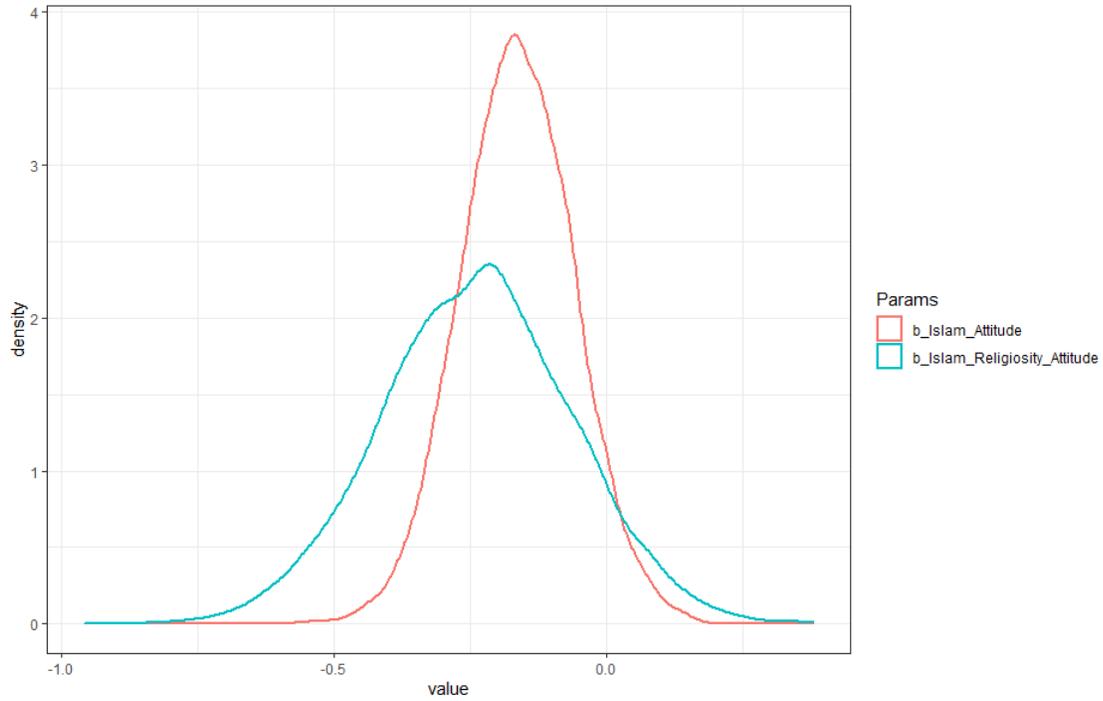


Figure S10.13: Model 10's posterior density distribution for the interaction between the Islam and Religiosity variables.

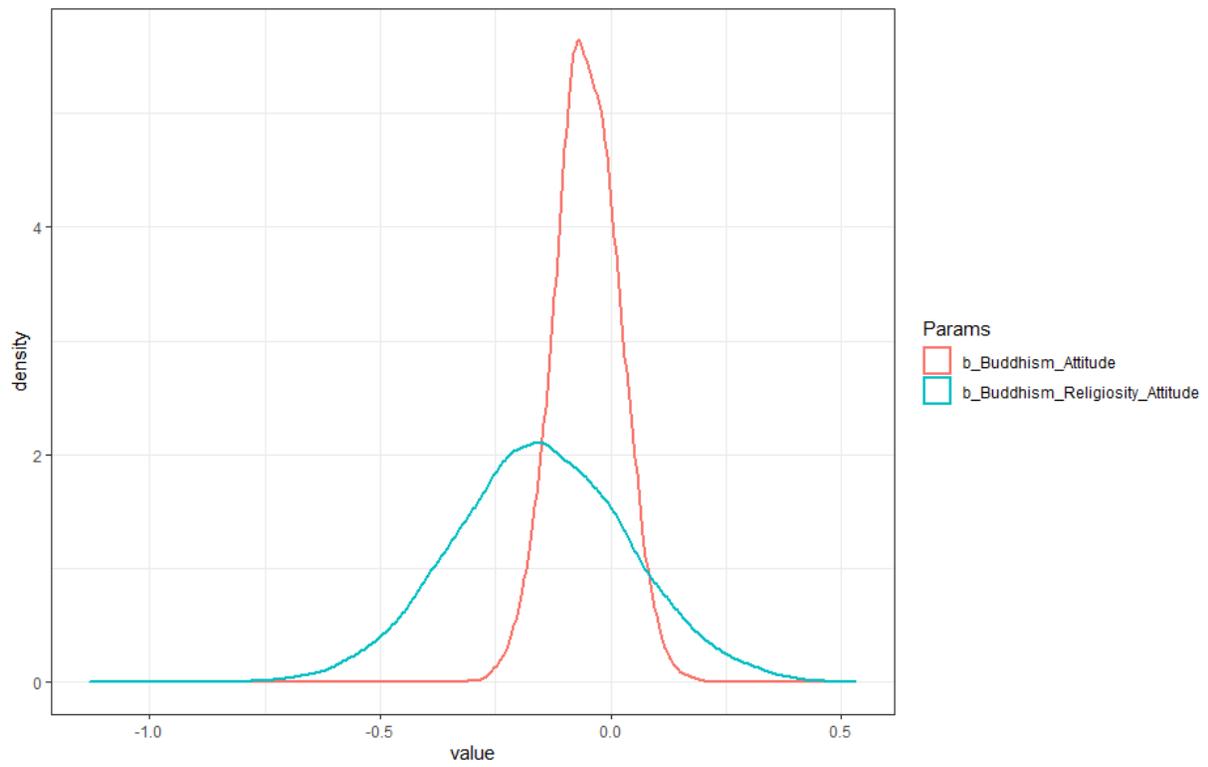


Figure S10.14: Model 10's posterior density distribution for the interaction between the Islam and Religiosity variables.

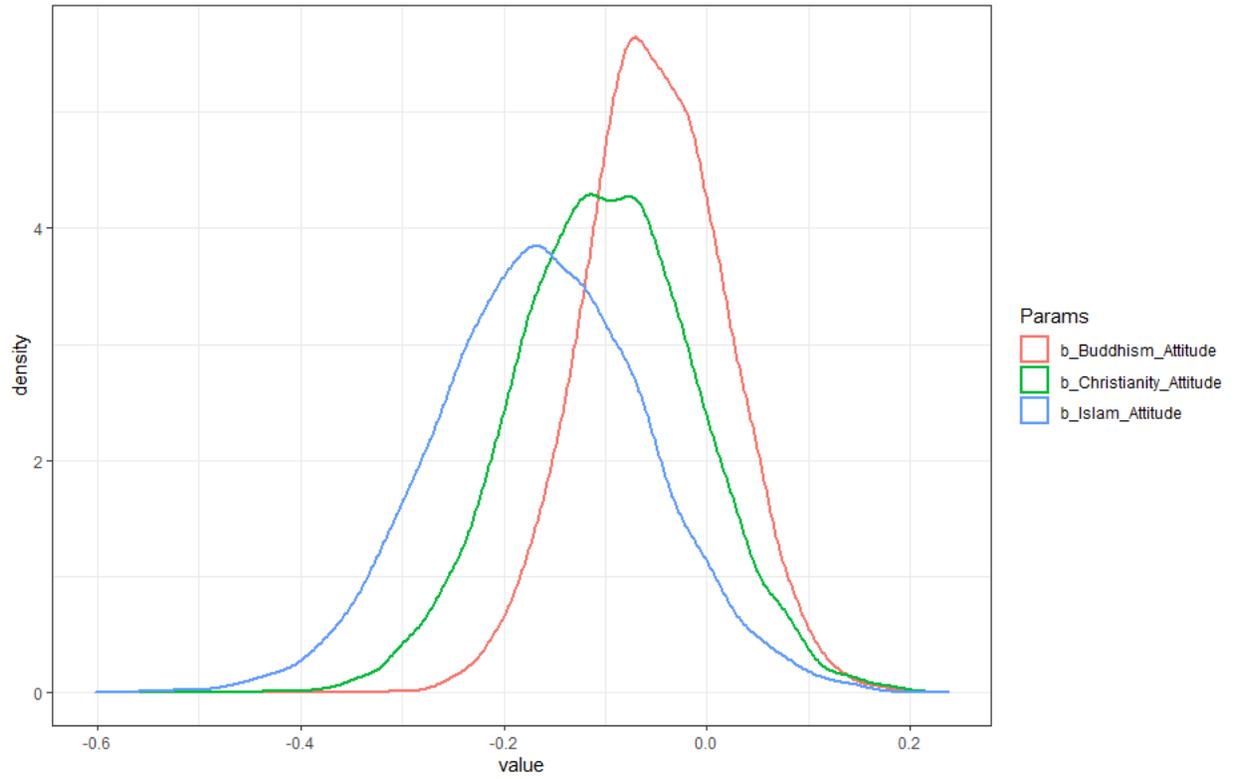


Figure S10.15: Model 10's posterior density distribution for the three religions as the predictor of the attitude toward the AI managers.

Density distribution with HPDI

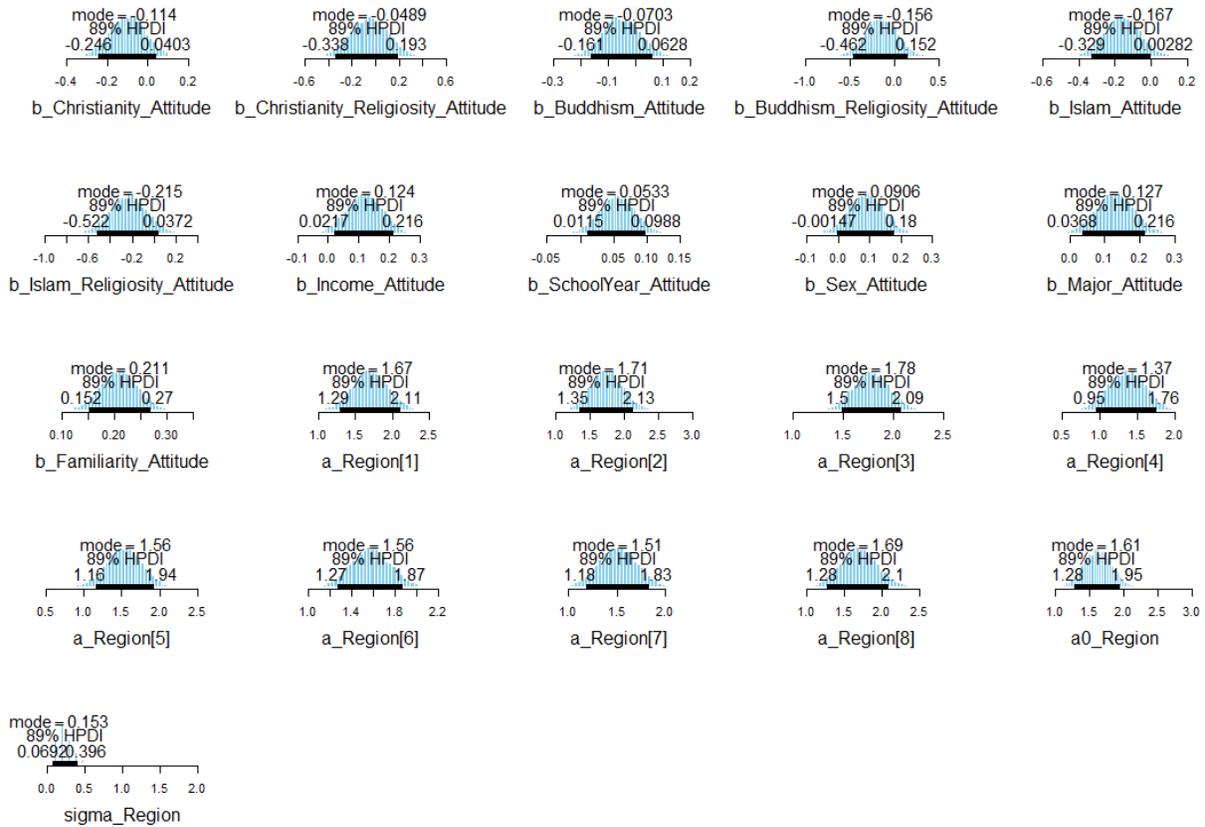


Figure S10.16: Model 10's density distribution with HDPI for all the explanatory variables.

Model Fit Diagnostic

Loo test

Computed from 12000 by 748 log-likelihood matrix

```

Estimate  SE
elpd_loo -844.3 19.1
p_loo    18.0  1.2
looic    1688.6 38.2
-----

```

Monte Carlo SE of elpd_loo is 0.0.

All Pareto k estimates are good ($k < 0.5$).
see help('pareto-k-diagnostic') for details.

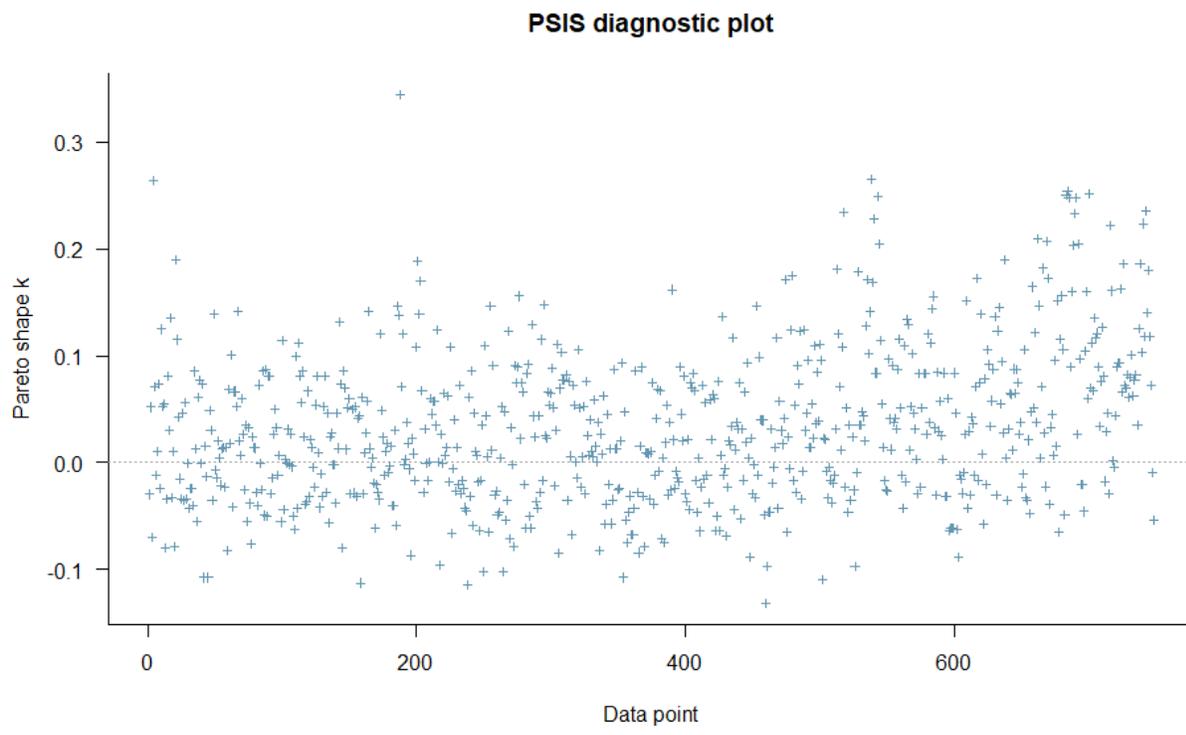


Figure S10.17: PSIS diagnostic plot for model 10.

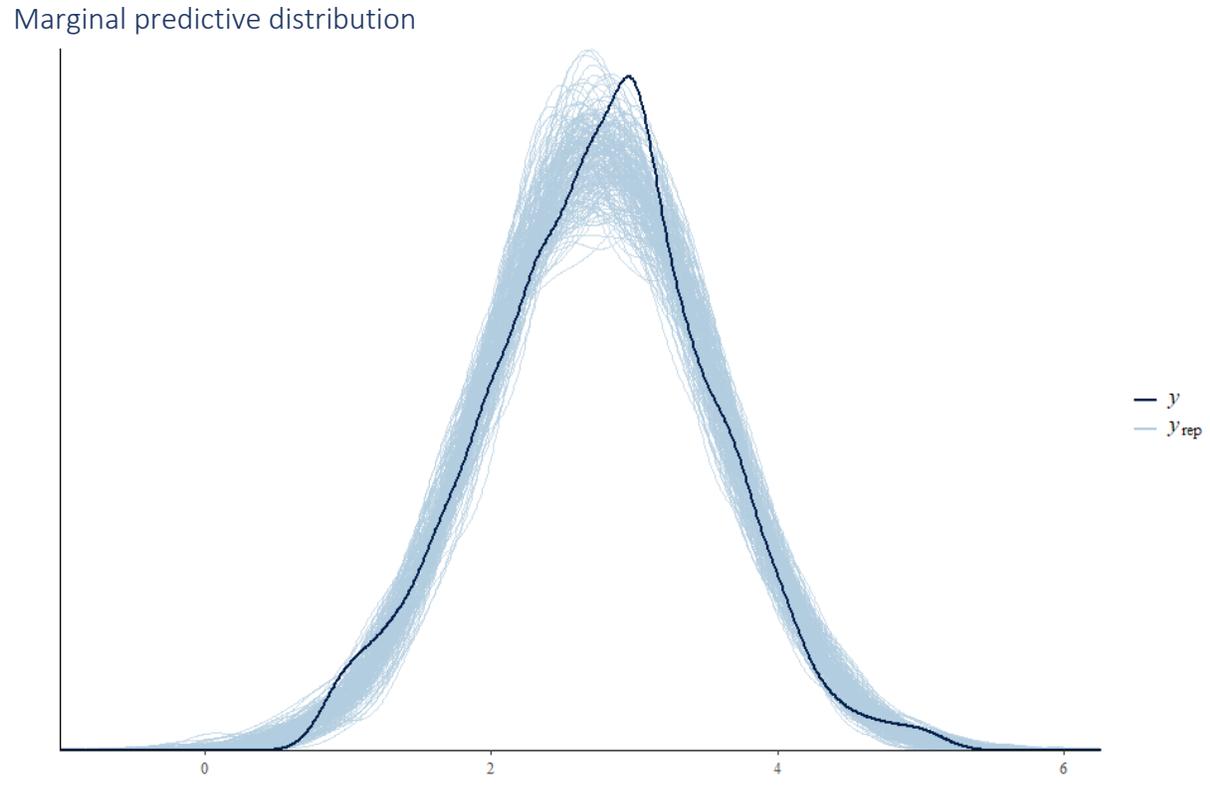


Figure S10.18: Marginal predictive distribution for model 10.

WAIC test

Computed from 12000 by 748 log-likelihood matrix

	Estimate	SE
elpd_waic	-844.2	19.1
p_waic	18.0	1.2
waic	1688.4	38.2

2 (0.3%) p_waic estimates greater than 0.4. We recommend trying loo instead.
warning message:

2 (0.3%) p_waic estimates greater than 0.4. We recommend trying loo instead.

MODEL 11

$$\begin{aligned}
 \textit{Attitude} \sim & \text{alpha}[\textit{Nationalities}_{\textit{varint}}] + \textit{Familiarity} + \textit{Income} + \textit{SchoolYear} + \textit{Sex} + \textit{Major} \\
 & + \textit{Christianity} + \textit{Islam} + \textit{Buddhism} + \textit{Christianity_Religiosity} \\
 & + \textit{Islam_Religiosity} + \textit{Buddhism_Religiosity}
 \end{aligned}$$

Table S11.1. Posterior distribution of model 11 which estimate the effects of different nationalities.

	Mean	SD	n_eff	Rhat
a_Attitude	1.63	0.22	6744	1
b_Christianity_Attitude	0.05	0.12	9854	1
b_Christianity_Religiosity_Attitude	0.01	0.18	10445	1
b_Buddhism_Attitude	-0.02	0.08	10545	1
b_Buddhism_Religiosity_Attitude	-0.20	0.23	10186	1
b_Islam_Attitude	-0.01	0.14	9251	1
b_Islam_Religiosity_Attitude	-0.53	0.20	9074	1
b_Income_Attitude	0.02	0.07	9551	1
b_SchoolYear_Attitude	0.04	0.03	11553	1
b_Sex_Attitude	0.14	0.06	9601	1
b_Major_Attitude	0.16	0.06	12210	1
b_Familiarity_Attitude	0.24	0.04	9532	1
a_Country[Bangladesh]	1.45	0.28	6458	1
a_Country[China]	1.73	0.21	10214	1
a_Country[India]	1.38	0.28	9138	1
a_Country[Indonesia]	1.47	0.24	8058	1
a_Country[Japan]	1.96	0.21	8558	1
a_Country[Nepal]	1.52	0.24	9271	1

a_Country[South Korea]	1.69	0.23	8872	1
a_Country[Sri Lanka]	1.68	0.25	8842	1
a_Country[Thailand]	1.63	0.22	7851	1
a_Country[Vietnam]	1.78	0.21	7526	1

Monte Carlo SE of elpd_loo is 0.0.

All Pareto k estimates are good ($k < 0.5$).