DEFAULT MODEL

Linear mixed-effects model fit by REML

Data: data

AIC BIC logLik

3823.742 3853.493 -1905.871

Random effects:

Formula: ~1 | respondant

(Intercept) Residual

StdDev: 1.380283 1.154268

Fixed effects: attitude ~ year\_c + year\_c2 + religpref

Value Std.Error DF t-value p-value

(Intercept) 5.082493 0.1123892 790 45.22224 0.0000

year\_c -0.582765 0.1111956 790 -5.24090 0.0000

year\_c2 0.228220 0.0355201 790 6.42508 0.0000

religpref -1.173780 0.3653034 262 -3.21317 0.0015

Correlation:

(Intr) year\_c yer\_c2

year\_c -0.424

year\_c2 0.316 -0.958

religpref -0.222 0.000 0.000

Standardized Within-Group Residuals:

Min Q1 Med Q3 Max

-3.44166118 -0.55150814 -0.01003921 0.49878787 2.95847381

Number of Observations: 1056

Number of Groups: 264

AR1 MODEL

Linear mixed-effects model fit by REML

Data: data

AIC BIC logLik

3825.39 3860.099 -1905.695

Random effects:

Formula: ~1 | respondant

(Intercept) Residual

StdDev: 1.372144 1.163549

Correlation Structure: AR(1)

Formula: ~1 | respondant

Parameter estimate(s):

Phi

0.03084258

Fixed effects: attitude ~ year\_c + year\_c2 + religpref

Value Std.Error DF t-value p-value

(Intercept) 5.085626 0.1125049 790 45.20360 0.0000

year\_c -0.584786 0.1113118 790 -5.25358 0.0000

year\_c2 0.228220 0.0355117 790 6.42661 0.0000

religpref -1.175282 0.3652121 262 -3.21808 0.0015

Correlation:

(Intr) year\_c yer\_c2

year\_c -0.422

year\_c2 0.311 -0.957

religpref -0.221 0.000 0.000

Standardized Within-Group Residuals:

Min Q1 Med Q3 Max

-3.441726397 -0.548807017 0.001431338 0.512933522 2.946330817

Number of Observations: 1056

Number of Groups: 264

UNSTRUCTURED MODEL

Linear mixed-effects model fit by REML

Data: data

AIC BIC logLik

3828.545 3902.922 -1899.273

Random effects:

Formula: ~1 | respondant

(Intercept) Residual

StdDev: 1.336698 1.071275

Correlation Structure: General

Formula: ~1 | respondant

Parameter estimate(s):

Correlation:

1 2 3

2 0.039

3 -0.010 0.055

4 0.120 0.059 0.222

Variance function:

Structure: Different standard deviations per stratum

Formula: ~1 | year\_c

Parameter estimates:

0 1 2 3

1.000000 1.144623 1.241321 1.099150

Fixed effects: attitude ~ year\_c + year\_c2 + religpref

Value Std.Error DF t-value p-value

(Intercept) 5.112974 0.1079084 790 47.38252 0.000

year\_c -0.608780 0.1123070 790 -5.42068 0.000

year\_c2 0.228776 0.0355878 790 6.42851 0.000

religpref -1.206079 0.3638631 262 -3.31465 0.001

Correlation:

(Intr) year\_c yer\_c2

year\_c -0.396

year\_c2 0.311 -0.963

religpref -0.230 0.000 0.000

Standardized Within-Group Residuals:

Min Q1 Med Q3 Max

-3.23356241 -0.54774355 0.04335927 0.54126782 2.72288586

Number of Observations: 1056

Number of Groups: 264

HETEROGENOUS MODEL

Linear mixed-effects model fit by REML

Data: data

AIC BIC logLik

3822.426 3867.052 -1902.213

Random effects:

Formula: ~1 | respondant

(Intercept) Residual

StdDev: 1.381769 1.069775

Variance function:

Structure: Different standard deviations per stratum

Formula: ~1 | year\_c

Parameter estimates:

0 1 2 3

1.000000 1.136930 1.179198 0.985297

Fixed effects: attitude ~ year\_c + year\_c2 + religpref

Value Std.Error DF t-value p-value

(Intercept) 5.098946 0.1096372 790 46.50744 0.0000

year\_c -0.603502 0.1110213 790 -5.43591 0.0000

year\_c2 0.231547 0.0354989 790 6.52266 0.0000

religpref -1.189293 0.3649670 262 -3.25863 0.0013

Correlation:

(Intr) year\_c yer\_c2

year\_c -0.380

year\_c2 0.281 -0.964

religpref -0.227 0.000 0.000

Standardized Within-Group Residuals:

Min Q1 Med Q3 Max

-3.34833105 -0.54550485 0.01338855 0.49159236 2.84421434

Number of Observations: 1056

Number of Groups: 264

DEVIANCE TESTS

Model df AIC BIC logLik Test L.Ratio p-value

mod.homo 1 6 3823.742 3853.493 -1905.871

mod.AR 2 7 3825.390 3860.099 -1905.695 1 vs 2 0.3522741 0.5528

Model df AIC BIC logLik Test L.Ratio p-value

mod.homo 1 6 3823.742 3853.493 -1905.871

mod.hetero 2 9 3822.426 3867.052 -1902.213 1 vs 2 7.316427 0.0625