Models:

Used *Ordinal* package - Cumulative Link Mixed Model

Decided not to use linear regression because it is not scale-sensitive thus gives less effective models.

1. **Ordinal (Dependent: Comfortability, Predictor: Religion)**

model\_rel<-clmm(as.factor(Answer)~religious+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ religious + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1616 -2366.95 474 5.90 401(1995) 6.92e-05 3.4e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.262 1.124

Number of groups: response 101

Coefficients:

Estimate Std. Error z value Pr(>|z|)

religious -0.28556 0.08432 -3.386 0.000708 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -2.5334 0.2667 -9.498

2|3 -1.5269 0.2612 -5.846

3|4 -0.6056 0.2591 -2.338

4|5 0.1637 0.2588 0.632

(16 observations deleted due to missingness)

1. **Ordinal (Dep: Com, Pred: Gender)**

model\_gend<-clmm(as.factor(Answer)~gender\_ch+(1|response),data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ gender\_ch + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2400.07 4812.14 323(1612) 3.26e-04 7.4e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.431 1.196

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

gender\_ch 0.09677 0.19630 0.493 0.622

Threshold coefficients:

Estimate Std. Error z value

1|2 -1.6033 0.3784 -4.237

2|3 -0.5880 0.3764 -1.562

3|4 0.3325 0.3761 0.884

4|5 1.1195 0.3768 2.971

1. **Ordinal (Dep: Com, Pred: Rel+Gender)**

> model\_Mrelgen<-clmm(as.factor(Answer)~religious+gender\_ch+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ religious + gender\_ch + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1616 -2366.76 4747.52 472(2340) 2.21e-03 8.9e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.258 1.122

Number of groups: response 101

Coefficients:

Estimate Std. Error z value Pr(>|z|)

religious -0.28707 0.08426 -3.407 0.000657 \*\*\*

gender\_ch 0.11347 0.18597 0.610 0.541768

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -2.3340 0.4207 -5.548

2|3 -1.3274 0.4177 -3.178

3|4 -0.4061 0.4166 -0.975

4|5 0.3631 0.4165 0.872

(16 observations deleted due to missingness)

1. **Ordinal (Dep: Com, Pred: Year of Study)**

> model\_Myear<-clmm(as.factor(Answer)~year\_ch+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ year\_ch + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2399.07 4810.14 379(1900) 3.50e-03 6.5e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.398 1.182

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

year\_ch -0.1654 0.1102 -1.501 0.133

Threshold coefficients:

Estimate Std. Error z value

1|2 -2.2775 0.3624 -6.284

2|3 -1.2621 0.3588 -3.517

3|4 -0.3419 0.3578 -0.956

4|5 0.4450 0.3580 1.243

1. **Ordinal (Dep: Com, Pred: Mother tongue + en\_swear)**

model\_MtongueEnsw<-clmm(as.factor(Answer)~mothertongue+en\_swear+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ mothertongue + en\_swear + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2301.99 4617.97 524(2619) 2.41e-03 5.6e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.719 1.311

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

mmothertongue -0.01031 0.02662 -0.387 0.699

en\_swear1 -1.34528 0.09865 -13.638 <2e-16 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -2.6718 0.2232 -11.972

2|3 -1.5803 0.2166 -7.296

3|4 -0.5620 0.2132 -2.636

4|5 0.3095 0.2125 1.456

1. **Ordinal (Dep: Com, Pred: Mother tongue + ru\_swear)**

model\_MtongueRusw<-clmm(as.factor(Answer)~mothertongue+ru\_swear+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ mmothertongue + ru\_swear + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2301.99 4617.97 542(2710) 8.84e-03 5.5e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.719 1.311

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

mmothertongue -0.01030 0.02662 -0.387 0.699

ru\_swear 1.34528 0.09865 13.637 <2e-16 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -1.3265 0.2156 -6.154

2|3 -0.2350 0.2123 -1.107

3|4 0.7832 0.2134 3.670

4|5 1.6547 0.2163 7.649

1. **Ordinal (Dep: Com, Pred: mother tongue + hear freq)**

model\_MtongueHearfreq<-clmm(as.factor(Answer)~mmothertongue+hearswearfreq+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ mmothertongue + hearswearfreq + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2393.74 4801.49 508(2782) 1.31e-04 8.0e+03

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.229 1.109

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

mmothertongue -0.006945 0.023004 -0.302 0.762715

hearswearfreq 0.437135 0.119339 3.663 0.000249 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 0.3253 0.6148 0.529

2|3 1.3396 0.6152 2.177

3|4 2.2603 0.6166 3.666

4|5 3.0476 0.6183 4.929

1. **Ordinal (Dep: Com, Pred: mother tongue)**

> model\_Mtongue<-clmm(as.factor(Answer)~mmothertongue+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ mmothertongue + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2400.11 4812.22 465(2324) 1.47e-04 5.2e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.43 1.196

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

mmothertongue -0.009749 0.024523 -0.398 0.691

Threshold coefficients:

Estimate Std. Error z value

1|2 -1.8321 0.1970 -9.301

2|3 -0.8170 0.1920 -4.255

3|4 0.1035 0.1909 0.542

4|5 0.8906 0.1919 4.641

1. **Ordinal (Dep: Com, Pred: say freq)**

model\_Msayfreq<-clmm(as.factor(Answer)~sayswearfreq+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ sayswearfreq + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2386.83 4785.66 352(1767) 1.13e-04 6.9e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.032 1.016

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

sayswearfreq 0.43418 0.07942 5.467 4.58e-08 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -0.02765 0.33835 -0.082

2|3 0.98639 0.33870 2.912

3|4 1.90719 0.34068 5.598

4|5 2.69494 0.34348 7.846

1. **Ordinal (Dep: Com, Pred: hear freq)**

model\_Mhearfreq<-clmm(as.factor(Answer)~hearswearfreq+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ hearswearfreq + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2393.79 4799.58 697(3871) 1.26e+01 1.3e+03

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.24 1.113

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

hearswearfreq 0.437233 0.002002 218.3 <2e-16 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 0.364358 0.001991 183.03

2|3 1.378905 0.001988 693.66

3|4 2.299815 0.047870 48.04

4|5 3.087354 0.062090 49.72

1. **Ordinal (Dep: Com, Pred: say freq + hear freq)**

model\_Msayhearfreq<-clmm(as.factor(Answer)~hearswearfreq+sayswearfreq+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ hearswearfreq + sayswearfreq + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2386.05 4786.11 520(2607) 1.06e-03 4.3e+03

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.013 1.006

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

hearswearfreq 0.16100 0.12888 1.249 0.212

sayswearfreq 0.37405 0.09204 4.064 4.82e-05 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 0.5188 0.5523 0.939

2|3 1.5326 0.5530 2.771

3|4 2.4534 0.5547 4.423

4|5 3.2412 0.5568 5.821

1. **Ordinal (Dep: Com, Pred: religion + hear freq)**

model\_MrelHearfreq<-clmm(as.factor(Answer)~hearswearfreq+religious+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ hearswearfreq + religious + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1616 -2360.45 4734.90 516(2586) 6.28e-04 3.9e+03

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.076 1.037

Number of groups: response 101

Coefficients:

Estimate Std. Error z value Pr(>|z|)

hearswearfreq 0.42039 0.11364 3.699 0.000216 \*\*\*

religious -0.27004 0.07899 -3.419 0.000629 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -0.4281 0.6155 -0.696

2|3 0.5776 0.6151 0.939

3|4 1.4991 0.6159 2.434

4|5 2.2686 0.6172 3.676

(16 observations deleted due to missingness)

1. **Ordinal (Dep: Com, Pred: lang of swear)**

model\_Mlangofswear<-clmm(as.factor(Answer)~langOfswear+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ langOfswear + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2399.25 4810.49 342(1885) 5.08e-02 1.1e+04

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.397 1.182

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

langOfswear 0.004677 0.003352 1.395 0.163

Threshold coefficients:

Estimate Std. Error z value

1|2 -1.6654 0.1596 -10.438

2|3 -0.6502 0.1539 -4.225

3|4 0.2703 0.1531 1.766

4|5 1.0574 0.1548 6.830

1. **Ordinal (Dep: Com, Pred: lang of swear + ru\_swear)**

model\_Mlangofswear\_rusw<-clmm(as.factor(Answer)~langOfswear+ru\_swear+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ langOfswear + ru\_swear + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2301.17 4616.35 403(2032) 5.60e-05 1.2e+04

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.683 1.297

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

langOfswear 0.004942 0.003696 1.337 0.181

ru\_swear 1.344879 0.098645 13.633 <2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -1.15116 0.17556 -6.557

2|3 -0.05952 0.17214 -0.346

3|4 0.95891 0.17412 5.507

4|5 1.83031 0.17820 10.271

1. **Ordinal (Dep: Com, Pred: lang of swear + en\_swear)**

model\_Mlangofswear\_ensw<-clmm(as.factor(Answer)~langOfswear+en\_swear+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ langOfswear + en\_swear + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2301.17 4616.35 390(1959) 3.56e-03 1.2e+04

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.683 1.297

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

langOfswear 0.004942 0.003696 1.337 0.181

en\_swear1 -1.344879 0.098644 -13.634 <2e-16 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -2.4960 0.1841 -13.555

2|3 -1.4044 0.1767 -7.948

3|4 -0.3860 0.1732 -2.229

4|5 0.4854 0.1728 2.810

1. **Ordinal (Dep: Com, Pred: en\_swear)**

model\_Mensw<-clmm(as.factor(Answer)~en\_swear+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ en\_swear + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2302.06 4616.12 357(1782) 1.53e-03 9.2e+01

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.724 1.313

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

en\_swear1 -1.34534 0.09865 -13.64 <2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -2.6134 0.1641 -15.927

2|3 -1.5219 0.1552 -9.808

3|4 -0.5036 0.1507 -3.343

4|5 0.3679 0.1499 2.455

1. **Ordinal (Dep: Com, Pred: ru\_swear)**

Model\_Mrusw<-clmm(as.factor(Answer)~ru\_swear+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ ru\_swear + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2302.06 4616.12 386(1927) 3.21e-04 8.8e+01

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.724 1.313

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

ru\_swear 1.34533 0.09865 13.64 <2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -1.2681 0.1539 -8.242

2|3 -0.1765 0.1494 -1.182

3|4 0.8417 0.1512 5.568

4|5 1.7132 0.1556 11.014

1. **Ordinal (Dep: Com, Pred: rel + en\_swear)**

model\_Mrel\_ensw<-clmm(as.factor(Answer)~en\_swear+religious+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ en\_swear + religious + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1616 -2267.88 4549.77 522(2598) 4.83e-03 3.5e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.536 1.239

Number of groups: response 101

Coefficients:

Estimate Std. Error z value Pr(>|z|)

en\_swear1 -1.36090 0.09939 -13.693 < 2e-16 \*\*\*

religious -0.30791 0.09213 -3.342 0.000831 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -3.4412 0.2994 -11.494

2|3 -2.3565 0.2924 -8.058

3|4 -1.3334 0.2884 -4.624

4|5 -0.4795 0.2866 -1.673

(16 observations deleted due to missingness)

1. **Ordinal (Dep: Com, Pred: rel + ru\_swear)**

model\_Mrel\_rusw<-clmm(as.factor(Answer)~ru\_swear+religious+(1|response), data=processed\_final, Hess=TRUE)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ ru\_swear + religious + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1616 -2267.88 4549.77 499(2483) 1.33e-03 3.4e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.536 1.239

Number of groups: response 101

Coefficients:

Estimate Std. Error z value Pr(>|z|)

ru\_swear 1.36091 0.09939 13.693 < 2e-16 \*\*\*

religious -0.30791 0.09212 -3.342 0.000831 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -2.08025 0.29107 -7.147

2|3 -0.99557 0.28661 -3.474

3|4 0.02753 0.28596 0.096

4|5 0.88145 0.28700 3.071

(16 observations deleted due to missingness)

1. **Ordinal (Dep: Com, Pred: sayswear + ru\_swear)**

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: as.factor(Answer) ~ en\_swear + sayswearfreq + (1 | response)

data: processed\_final

link threshold nobs logLik AIC niter max.grad cond.H

logit flexible 1632 -2288.68 4591.36 500(2465) 6.27e-04 7.2e+02

Random effects:

Groups Name Variance Std.Dev.

response (Intercept) 1.255 1.12

Number of groups: response 102

Coefficients:

Estimate Std. Error z value Pr(>|z|)

en\_swear1 -1.34490 0.09862 -13.637 < 2e-16 \*\*\*

sayswearfreq 0.47250 0.08641 5.468 4.55e-08 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Threshold coefficients:

Estimate Std. Error z value

1|2 -0.7051 0.3720 -1.896

2|3 0.3850 0.3715 1.036

3|4 1.4039 0.3726 3.768

4|5 2.2765 0.3748 6.074

**AIC:**

**df AIC**

**model\_Mensw 6 4616.120**

**model\_Mgend 6 4812.135**

**model\_Mhearfreq 6 4799.579**

**model\_Mlangofswear 6 4810.494**

**model\_Mlangofswear\_ensw 7 4616.349**

**model\_Mlangofswear\_rusw 7 4616.349**

**model\_Mrel 6 4745.897**

**model\_Mrel\_ensw 7 4549.767**

**model\_Mrel\_rusw 7 4549.767**

**model\_Mrelgen 7 4747.525**

**model\_MrelHearfreq 7 4734.900**

**model\_Mrusw 6 4616.120**

**model\_Msayfreq 6 4785.660**

**model\_Msayhearfreq 7 4786.109**

**model\_Mtongue 6 4812.220**

**model\_MtongueEnsw 7 4617.970**

**model\_MtongueHearfreq 7 4801.486**

**model\_MtongueRusw 7 4617.970**

**model\_Myear 6 4810.138**