**Vietnam & Albania**

**Results 1**

results1 <- oaxaca(PV1MATH ~ MISCED+WEALTH+CULTPOS+HEDRES+BOOK\_N| OTHER,

                   data=PISA\_VNAL1, R=30,reg.fun=Marek)

$twofold$variables[[2]]

            weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept)      1      0.00000000    0.00000000      127.21567553       7.0315669                   0                 0

MISCED           1    -13.73495855    1.18936116       33.03530704       6.0301263                   0                 0

WEALTH           1     -5.37843708    1.24380985       -3.40140697       2.5794401                   0                 0

CULTPOS          1     -0.08376149    0.42498377        0.26216812       0.2946825                   0                 0

HEDRES           1     -6.34720557    0.61323282      -12.75548993       1.8514722                   0                 0

BOOK\_N           1      0.07635245    0.07661615        0.07618491       1.3461889                   0                 0

            coef(unexplained B) se(unexplained B)

(Intercept)        127.21567553         7.0315669

MISCED              33.03530704         6.0301263

WEALTH              -3.40140697         2.5794401

CULTPOS              0.26216812         0.2946825

HEDRES             -12.75548993         1.8514722

BOOK\_N               0.07618491         1.3461889

**Results 2**

results2 <- oaxaca(PV1MATH ~ OUTMATH+PARPRESSURE+TIGERMOM+TEACHMOM| OTHER,

                   data=PISA\_VNAL2, R=30,reg.fun=Marek)

$twofold$variables[[2]]

            weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept)      1      0.00000000    0.00000000         61.387553        6.823673                   0                 0

OUTMATH          1     17.25852775    1.22004274         12.462751        1.418869                   0                 0

PARPRESSURE      1      1.99428756    0.41485121          9.512864        1.635947                   0                 0

TIGERMOM         1     -0.05765274    0.08068961          8.913689        4.496761                   0                 0

TEACHMOM         1      5.70725193    1.00058829          3.143305        1.087530                   0                 0

            coef(unexplained B) se(unexplained B)

(Intercept)           61.387553          6.823673

OUTMATH               12.462751          1.418869

PARPRESSURE            9.512864          1.635947

TIGERMOM               8.913689          4.496761

TEACHMOM               3.143305          1.087530

**Results 3**

results3 <- oaxaca(PV1MATH ~ MISCED+WEALTH+CULTPOS+HEDRES+BOOK\_N+OUTMATH+PARPRESSURE+TIGERMOM+TEACHMOM| OTHER,

                   data=PISA\_VNAL3, R=30,reg.fun=Marek)

$twofold$variables[[2]]

            weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept)      1      0.00000000    0.00000000        79.8291179      10.6351039                   0                 0

MISCED           1    -11.69495773    1.59658853        25.5642170       9.0208523                   0                 0

WEALTH           1     -4.16574799    1.47613476        -1.4119606       4.0444529                   0                 0

CULTPOS          1      0.63778229    0.44960261         0.1443790       0.2228618                   0                 0

HEDRES           1     -5.37687774    0.78637816       -10.5709142       2.0338391                   0                 0

BOOK\_N           1      0.03161625    0.06831401         0.3738044       1.7828895                   0                 0

OUTMATH          1     12.57365710    1.27422487         7.9260304       2.5419960                   0                 0

PARPRESSURE      1      1.68545111    0.45213437         7.5024151       1.9800981                   0                 0

TIGERMOM         1     -0.06755509    0.10902359        10.8950967       5.0492867                   0                 0

TEACHMOM         1      5.00967226    0.86450119         3.1594048       1.4588323                   0                 0

            coef(unexplained B) se(unexplained B)

(Intercept)          79.8291179        10.6351039

MISCED               25.5642170         9.0208523

WEALTH               -1.4119606         4.0444529

CULTPOS               0.1443790         0.2228618

HEDRES              -10.5709142         2.0338391

BOOK\_N                0.3738044         1.7828895

OUTMATH               7.9260304         2.5419960

PARPRESSURE           7.5024151         1.9800981

TIGERMOM             10.8950967         5.0492867

TEACHMOM              3.1594048         1.4588323

**Vietnam & Colombia**

**Results 1**

results1 <- oaxaca(PV1MATH ~ HISEI+MISCED+WEALTH+CULTPOS+HEDRES+BOOK\_N| OTHER,

data=PISA\_VNCO1, R=30,reg.fun=Marek)

$twofold$variables[[2]]

weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept) 1 0.00000000 0.0000000 121.49058641 5.05627784 0 0

HISEI 1 -9.82985326 1.0683627 8.51630236 4.49195384 0 0

MISCED 1 -7.60569186 1.0877357 10.89035139 3.74450267 0 0

WEALTH 1 -1.82331135 0.9935871 23.89086348 2.40812350 0 0

CULTPOS 1 -0.08694956 0.2406706 -0.07905981 0.05267232 0 0

HEDRES 1 -6.31822752 0.6791744 -11.45059387 1.39982824 0 0

BOOK\_N 1 0.17836279 0.1427061 -3.95949413 1.33136978 0 0

coef(unexplained B) se(unexplained B)

(Intercept) 121.49058641 5.05627784

HISEI 8.51630236 4.49195384

MISCED 10.89035139 3.74450267

WEALTH 23.89086348 2.40812350

CULTPOS -0.07905981 0.05267232

HEDRES -11.45059387 1.39982824

BOOK\_N -3.95949413 1.33136978

**Results 2**

results2 <- oaxaca(PV1MATH ~ OUTMATH+PARPRESSURE+TIGERMOM+TEACHMOM| OTHER,

data=PISA\_VNCO2, R=30,reg.fun=Marek)

$twofold$variables[[2]]

weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept) 1 0.00000000 0.00000000 69.011009 6.5643494 0 0

OUTMATH 1 13.65373546 1.10702630 24.376661 2.3298386 0 0

PARPRESSURE 1 8.32587114 1.08596140 3.171020 0.7879186 0 0

TIGERMOM 1 0.04820708 0.05427254 -6.188626 4.4123890 0 0

TEACHMOM 1 5.58296369 0.95685674 1.125601 1.1935542 0 0

coef(unexplained B) se(unexplained B)

(Intercept) 69.011009 6.5643494

OUTMATH 24.376661 2.3298386

PARPRESSURE 3.171020 0.7879186

TIGERMOM -6.188626 4.4123890

TEACHMOM 1.125601 1.1935542

**Results 3**

results3 <- oaxaca(PV1MATH ~ HISEI+MISCED+WEALTH+CULTPOS+HEDRES+BOOK\_N+OUTMATH+PARPRESSURE+TIGERMOM+TEACHMOM| OTHER,

data=PISA\_VNCO3, R=30,reg.fun=Marek)

$twofold$variables[[2]]

weight coef(explained) se(explained) coef(unexplained) se(unexplained)

(Intercept) 1 0.00000000 0.00000000 63.627420949 9.41306893

HISEI 1 -8.51271904 2.01337843 6.252227387 6.20679133

MISCED 1 -7.51572714 1.68404815 7.636951221 5.42175839

WEALTH 1 -1.46094524 1.58108826 27.663476088 4.21451869

CULTPOS 1 0.42968457 0.29227159 0.006681007 0.05106969

HEDRES 1 -6.49193472 0.96521614 -10.477580776 2.00061409

BOOK\_N 1 0.09004313 0.09439483 -5.550392385 1.80857360

OUTMATH 1 9.70760566 1.06785606 17.017719044 2.42362246

PARPRESSURE 1 6.72247798 0.70832516 3.153851720 0.63882276

TIGERMOM 1 0.04741853 0.06011331 -0.384686771 3.07322146

TEACHMOM 1 4.91693689 0.94308306 1.953972188 1.31303673

**Vietnam & Indonesia**

**Results 1**

results1 <- oaxaca(PV1MATH ~ HISEI+MISCED+WEALTH+CULTPOS+HEDRES+BOOK\_N| OTHER,

data=PISA\_VNID1, R=30,reg.fun=Marek)

$twofold$variables[[2]]

weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept) 1 0.0000000 0.00000000 112.786491 7.4585921 0 0

HISEI 1 -4.0392929 0.67310204 5.984708 2.5871769 0 0

MISCED 1 -1.8260279 0.36531557 10.514467 2.8098310 0 0

WEALTH 1 0.6314511 0.27477802 8.207339 4.4116739 0 0

CULTPOS 1 0.0844328 0.25136813 -2.089554 0.7299905 0 0

HEDRES 1 4.2904296 0.52567286 -2.793756 2.6456980 0 0

BOOK\_N 1 -0.1144566 0.07732229 0.737194 1.0000405 0 0

coef(unexplained B) se(unexplained B)

(Intercept) 112.786491 7.4585921

HISEI 5.984708 2.5871769

MISCED 10.514467 2.8098310

WEALTH 8.207339 4.4116739

CULTPOS -2.089554 0.7299905

HEDRES -2.793756 2.6456980

BOOK\_N 0.737194 1.0000405

**Results 2**

results2 <- oaxaca(PV1MATH ~ OUTMATH+PARPRESSURE+TIGERMOM+TEACHMOM| OTHER,

data=PISA\_VNID2, R=30,reg.fun=Marek)

$twofold$variables[[2]]

weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept) 1 0.0000000 0.0000000 81.611591 4.9091681 0 0

OUTMATH 1 20.5314067 1.1300922 11.510496 0.9372353 0 0

PARPRESSURE 1 0.7998674 0.3871142 12.651546 1.4582196 0 0

TIGERMOM 1 0.4524914 0.7661657 -2.001522 3.6718980 0 0

TEACHMOM 1 4.8432961 0.8263067 5.047768 1.2023692 0 0

coef(unexplained B) se(unexplained B)

(Intercept) 81.611591 4.9091681

OUTMATH 11.510496 0.9372353

PARPRESSURE 12.651546 1.4582196

TIGERMOM -2.001522 3.6718980

TEACHMOM 5.047768 1.2023692

**Results 3**

results3 <- oaxaca(PV1MATH ~ HISEI+MISCED+WEALTH+CULTPOS+HEDRES+BOOK\_N+OUTMATH+PARPRESSURE+TIGERMOM+TEACHMOM| OTHER,

data=PISA\_VNID3, R=30,reg.fun=Marek)

$twofold$variables[[2]]

weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept) 1 0.0000000 0.0000000 80.6043713 11.3081665 0 0

HISEI 1 -3.2414347 0.7255768 -1.8729026 4.0808078 0 0

MISCED 1 -1.6108399 0.3500132 8.2529722 3.2746392 0 0

WEALTH 1 0.5269634 0.5399895 7.4210851 5.2569673 0 0

CULTPOS 1 -0.3804114 0.2438875 -1.5998833 0.8588813 0 0

HEDRES 1 3.8178842 0.5770083 -2.7431719 3.9483140 0 0

BOOK\_N 1 -0.1339982 0.1697092 0.7477894 1.3421442 0 0

OUTMATH 1 14.6711986 1.7712783 7.2802843 1.5052118 0 0

PARPRESSURE 1 0.8393259 0.3181418 9.3697752 1.6949511 0 0

TIGERMOM 1 0.5720135 0.5226833 0.7449616 2.7599640 0 0

TEACHMOM 1 4.2205651 0.7378069 5.5921745 1.2095897 0 0

coef(unexplained B) se(unexplained B)

(Intercept) 80.6043713 11.3081665

HISEI -1.8729026 4.0808078

MISCED 8.2529722 3.2746392

WEALTH 7.4210851 5.2569673

CULTPOS -1.5998833 0.8588813

HEDRES -2.7431719 3.9483140

BOOK\_N 0.7477894 1.3421442

OUTMATH 7.2802843 1.5052118

PARPRESSURE 9.3697752 1.6949511

TIGERMOM 0.7449616 2.7599640

TEACHMOM 5.5921745 1.2095897

**Vietnam & Jordan**

**Results 1**

results1 <- oaxaca(PV1MATH ~ HISEI+MISCED+WEALTH+CULTPOS+HEDRES+BOOK\_N| OTHER,

data=PISA\_VNJO1, R=30,reg.fun=Marek)

$twofold$variables[[2]]

weight coef(explained) se(explained) coef(unexplained) se(unexplained) coef(unexplained A) se(unexplained A)

(Intercept) 1 0.00000000 0.0000000 146.2477053 9.1164788 0 0

HISEI 1 -18.39846849 2.2576106 10.8358481 6.9753476 0 0

MISCED 1 -12.72703154 2.1293699 1.1945292 5.4942176 0 0

WEALTH 1 -3.16248170 1.6986296 -0.8078736 1.3008232 0 0

CULTPOS 1 0.07676006 0.1901330 2.3403455 0.7262444 0 0

HEDRES 1 -9.69628670 1.1251592 -4.3592588 0.9728696 0 0

BOOK\_N 1 -0.55481544 0.4204728 1.0951769 1.5380909 0 0

coef(unexplained B) se(unexplained B)

(Intercept) 146.2477053 9.1164788

HISEI 10.8358481 6.9753476

MISCED 1.1945292 5.4942176

WEALTH -0.8078736 1.3008232

CULTPOS 2.3403455 0.7262444

HEDRES -4.3592588 0.9728696

BOOK\_N 1.0951769 1.5380909

**Results 2**

results2 <- oaxaca(PV1MATH ~ OUTMATH+PARPRESSURE+TIGERMOM+TEACHMOM| OTHER,

data=PISA\_VNJO2, R=30,reg.fun=Marek)