

# models\_and\_coefficients

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## Packages

```
library(tidyverse)
library(plm)
library(here)
library(texreg)
```

## Fitting models and output coefficients

```
merged <- read_csv(here("data","merged.csv"))
```

Rows: 3720 Columns: 21

-- Column specification -----

Delimiter: ","

chr (3): country\_name, ISO, region

dbl (18): year, gdp1000, OECD, OECD2023, popdens, urban, agedep, male\_edu, t...

i Use `spec()` to retrieve the full column specification for this data.

i Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

```
merged %>% mutate(lgdp1000=log(gdp1000)) -> merged
```

```
preds <- as.formula(" ~ conflict + lgdp1000 + OECD + popdens + urban +
                    agedep + male_edu + temp + rainfall1000 + earthquake + drought")
```

```
matmormod <- plm(update.formula(preds, maternalMor ~ .),index = c("ISO","year"),
                 effect = "twoways", model = "within", data = merged)
```

```
un5mormod <- plm(update.formula(preds, under5Mor ~ .),index = c("ISO","year"),
```

```

effect = "twoways", model = "within", data = merged)
infmormod <- plm(update.formula(preds, infantMor ~ .), index = c("ISO", "year"),
effect = "twoways", model = "within", data = merged)
neomormod <- plm(update.formula(preds, neonatalMor ~ .), index = c("ISO", "year"),
effect = "twoways", model = "within", data = merged)

coefs <- screenreg(list(matmormod, un5mormod, infmormod, neomormod),
custom.model.names = c("matmor", "un5mor", "infmor", "neomor"))
coefs

```

	matmor	un5mor	infmor	neomor
conflict	34.47 *** (4.49)	2.96 *** (0.72)	1.65 *** (0.36)	0.13 (0.14)
lgdp1000	-27.49 *** (4.74)	-8.70 *** (0.73)	-6.13 *** (0.37)	-3.18 *** (0.15)
OECD	28.06 (15.64)	6.62 ** (2.28)	3.22 ** (1.16)	1.22 ** (0.45)
popdens	-0.42 (0.38)	-0.34 *** (0.06)	-0.18 *** (0.03)	-0.05 *** (0.01)
urban	-8.30 *** (0.99)	-1.74 *** (0.15)	-1.01 *** (0.08)	-0.39 *** (0.03)
agedep	-0.60 (0.34)	-0.06 (0.05)	0.04 (0.02)	0.04 *** (0.01)
male_edu	-60.63 *** (5.95)	-9.01 *** (0.85)	-4.82 *** (0.43)	-1.32 *** (0.17)
temp	10.52 *** (3.18)	2.42 *** (0.52)	1.15 *** (0.26)	0.30 ** (0.10)
rainfall1000	-4.58 (6.15)	-0.04 (0.97)	0.02 (0.50)	-0.13 (0.19)
earthquake	4.50 (4.68)	1.64 * (0.75)	0.88 * (0.38)	0.45 ** (0.15)
drought	-1.26 (4.18)	0.94 (0.65)	0.73 * (0.33)	0.40 ** (0.13)
R <sup>2</sup>	0.10	0.15	0.21	0.24
Adj. R <sup>2</sup>	0.03	0.10	0.16	0.19
Num. obs.	3223	3618	3618	3618

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05