

ministersNor: An R package with data and description for Norwegian ministers

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Abstract

To come

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1. Introduction

2. Variables

3. Ministerial durability

```
R> #install_github(martigso/ministersNor)
R> library(ministersNor)
R> data("ministers")
R> head(ministers[,c(6,7,3,4,8)])
##   last_name      first_name      start      end party
## 1 Andersen Magnus Kristoffersen 1963-09-25 1965-10-11 DNA
## 2 Andersen Magnus Kristoffersen 1972-01-24 1972-10-17 DNA
## 3 Andreassen      Harriet 1980-10-03 1981-02-03 DNA
## 4 Andreassen      Harriet 1981-02-04 1981-10-13 DNA
## 5 Angelsen        Peter 1997-10-17 2000-01-21 Sp
## 6 Aune            Leif J  yrgen 1973-10-16 1976-01-14 DNA
```

Pooled resignation call model:

```
R> library(survival)
R>
R> model_1<-coxph(Surv(dur_start, dur_end, event2) ~ resigcalls + age_cen +
+               factor(gender) + factor(youthCen) + factor(youthLoc) +
```

```

+           minister_exp_cum_y_lag + factor(parlTen_dum) +
+           factor(education_dum) + factor(reshuffle) +
+           factor(CabinetType) + factor(structure) +
+           frailty(jurisdiction),
+           data=ministers, subset=prime_minister==0 & nsd_id!=299)
R>
R> round(summary(model_1)$coefficients, digits=3)
##              coef se(coef)   se2 Chisq   DF    p
## resigcalls      0.247   0.074 0.074 11.097 1.000 0.001
## age_cen         0.059   0.016 0.015 14.274 1.000 0.000
## factor(gender)Female 0.338   0.258 0.250  1.716 1.000 0.190
## factor(youthCen)1   -0.641   0.540 0.537  1.408 1.000 0.235
## factor(youthLoc)1    0.845   0.378 0.375  4.994 1.000 0.025
## minister_exp_cum_y_lag 0.114   0.041 0.040  7.742 1.000 0.005
## factor(parlTen_dum)1 -0.658   0.271 0.268  5.892 1.000 0.015
## factor(education_dum)Lowe 0.003   0.280 0.273  0.000 1.000 0.993
## factor(reshuffle)1   -0.371   0.490 0.486  0.575 1.000 0.448
## factor(CabinetType)Majori 0.150   0.221 0.219  0.459 1.000 0.498
## factor(structure)Coalitio -0.261   0.259 0.258  1.016 1.000 0.313
## frailty(jurisdiction)      NA      NA   NA 14.957 6.962 0.036

```

Actor based resignation call model:

```

R> library(survival)
R>
R> model_2<-coxph(Surv(duration, event2) ~ rc_opposition_dum*timeint +
+           rc_paper_dum*timeint + rc_party_dum*timeint +
+           age_cen + factor(gender) + factor(youthCen) +
+           factor(youthLoc) + minister_exp_cum_y_lag +
+           factor(parlTen_dum) + factor(education_dum) +
+           factor(reshuffle) + factor(CabinetType) +
+           factor(structure) + frailty(jurisdiction),
+           data=ministers, subset=prime_minister==0 & nsd_id!=299)
R>
R> round(summary(model_2)$coefficients, digits=3)
##              coef se(coef)   se2 Chisq   DF    p
## rc_opposition_dum    0.879   0.823 0.816  1.140 1.000 0.286
## timeint             -0.158   0.082 0.081  3.733 1.000 0.053
## rc_paper_dum        -0.502   0.785 0.778  0.410 1.000 0.522
## rc_party_dum         0.823   1.623 1.594  0.257 1.000 0.612
## age_cen             0.060   0.016 0.016 13.632 1.000 0.000
## factor(gender)Female 0.301   0.284 0.271  1.125 1.000 0.289
## factor(youthCen)1   -0.763   0.551 0.547  1.914 1.000 0.166
## factor(youthLoc)1    1.056   0.393 0.388  7.221 1.000 0.007
## minister_exp_cum_y_lag 0.126   0.042 0.041  8.984 1.000 0.003

```

```
## factor(parlTen_dum)1      -0.717    0.275 0.272  6.791 1.000 0.009
## factor(education_dum)Lowe -0.016    0.282 0.276  0.003 1.000 0.954
## factor(reshuffle)1       -0.001    0.487 0.481  0.000 1.000 0.999
## factor(CabinetType)Majori -0.225    0.264 0.263  0.722 1.000 0.395
## factor(structure)Coalitio  0.035    0.302 0.300  0.014 1.000 0.907
## frailty(jurisdiction)      NA         NA    NA 19.737 8.105 0.012
## rc_opposition_dum:timeint -0.329    0.235 0.233  1.953 1.000 0.162
## timeint:rc_paper_dum       0.435    0.230 0.228  3.567 1.000 0.059
## timeint:rc_party_dum       -0.102    0.454 0.447  0.050 1.000 0.823
```

Resignation calls per year model:

```
R> ministers3<-ministers %>%
+   group_by(nsd_id) %>%
+   arrange(start) %>%
+   mutate(age_first=age[1])
R>
R> ministers3$rc_per<-ministers3$resigcalls/((as.numeric(ministers3$end-ministers3$start))
R>
R> rcper_reg<-coxph(Surv(dur_start, dur_end, event2) ~ rc_per + age_cen +
+   factor(gender) + factor(youthCen) + factor(youthLoc) +
+   minister_exp_cum_y_lag + factor(parlTen_dum) +
+   factor(education_dum) + factor(reshuffle) +
+   factor(CabinetType) + factor(structure) + frailty(jurisdiction),
+   data=ministers3, subset=prime_minister==0 & rc_per<5)
R>
R> round(summary(rcper_reg)$coefficients, digits=3)
##              coef se(coef)   se2 Chisq  DF    p
## rc_per          0.725   0.117 0.116 38.372 1.000 0.000
## age_cen          0.063   0.015 0.015 16.715 1.000 0.000
## factor(gender)Female  0.348   0.252 0.245  1.907 1.000 0.167
## factor(youthCen)1    -0.505   0.549 0.546  0.847 1.000 0.358
## factor(youthLoc)1     0.719   0.383 0.380  3.526 1.000 0.060
## minister_exp_cum_y_lag  0.114   0.040 0.039  8.202 1.000 0.004
## factor(parlTen_dum)1  -0.628   0.267 0.264  5.553 1.000 0.018
## factor(education_dum)Lowe  0.067   0.281 0.276  0.057 1.000 0.812
## factor(reshuffle)1    -0.791   0.535 0.531  2.186 1.000 0.139
## factor(CabinetType)Majori  0.181   0.221 0.219  0.673 1.000 0.412
## factor(structure)Coalitio -0.321   0.260 0.258  1.526 1.000 0.217
## frailty(jurisdiction)      NA         NA    NA  8.411 4.926 0.130
```

Age as polynomial model:

```

R> polyage_reg<-agefirst_reg<-coxph(Surv(dur_start, dur_end, event2) ~ resigcalls +
+                                     poly(age_cen, 2, raw=TRUE) + factor(gender) +
+                                     factor(youthCen) + factor(youthLoc) +
+                                     minister_exp_cum_y_lag + factor(parlTen_dum) +
+                                     factor(education_dum) + factor(reshuffle) +
+                                     factor(CabinetType) + factor(structure) +
+                                     frailty(jurisdiction),
+                                     data=ministers3, subset=prime_minister==0)
R>
R> round(summary(polyage_reg)$coefficients, digits=3)
##               coef se(coef)   se2 Chisq   DF    p
## resigcalls      0.197   0.067 0.066  8.683 1.000 0.003
## poly(age_cen, 2, raw = TR 0.056   0.016 0.016 12.875 1.000 0.000
## poly(age_cen, 2, raw = TR 0.000   0.001 0.001  0.081 1.000 0.775
## factor(gender)Female     0.348   0.253 0.245  1.884 1.000 0.170
## factor(youthCen)1       -0.648   0.542 0.539  1.426 1.000 0.232
## factor(youthLoc)1        0.836   0.375 0.372  4.957 1.000 0.026
## minister_exp_cum_y_lag    0.127   0.040 0.039 10.156 1.000 0.001
## factor(parlTen_dum)1     -0.653   0.268 0.265  5.926 1.000 0.015
## factor(education_dum)Lowe -0.015   0.278 0.272  0.003 1.000 0.958
## factor(reshuffle)1       -0.423   0.488 0.484  0.751 1.000 0.386
## factor(CabinetType)Majori 0.192   0.219 0.218  0.768 1.000 0.381
## factor(structure)Coalitio -0.250   0.258 0.256  0.941 1.000 0.332
## frailty(jurisdiction)      NA        NA   NA 14.662 6.873 0.038

```

3.1. Robustness models

4. Resignation calls

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