**Lab exercises SEM course**

Dataset: ESS round 4, Belgian respodents only

**Week 1**

1-factor CFA model: welfare support

* 3 items: gvslvol, gvslvue, gvhlthc
* 6 items: gvslvol, gvslvue, gvhlthc, gvcldcr, gvjbevn, gvpdlwk

6-item version will have a lot of misfit; error correlations between gvslvol and gvhlthc; gvcldcr and gvpdlwk are justified

Possible addition: testing whether factor loadings can be constrained to be equal for the various items (tau-equivalent), likelihood ratio test

3-factor model: welfare criticism

* Economic criticism: sbstrec, sbbsntx
* Social criticism: sbprvpv, sbeqsoc, sbcwkfm
* Moral criticism: sblzazy, sblwcoa, sblwlka

Model modifications: sbcwkfm has low loading; error correlation between sblwcoa and sblwlka

Extra: 2nd-order CFA with the three dimensions of welfare criticism

**Week 2**

Exercise on acquiescence is dropped!

MIMIC: explain welfare support (see week 1) by means of agea, eduyrs, gndr, hinctnta

Full SEM with mediation

Does egalitarianism (gincdif, dfincac, smdfslv) mediate the relationship between agea, eduyrs, gndr, hinctnta and welfare support (+ indirect effect calculation)

**Week 3**

Measurement equivalence:

Is welfare support measured equivalently across genders?

Re-estimation of Full SEM of week 2 in multigroup setting