Syntax for: The potential benefits of Linked Data for the Social Sciences: Analysing economic drivers and network effects of international migration based on semantically integrated data.

SPSS syntax (data handling)

\* Encoding: UTF-8.

PRESERVE.

SET DECIMAL DOT.

GET DATA /TYPE=TXT

/FILE="F:\TRUMP-again\lat-query.csv"

/ENCODING='UTF8'

/DELIMITERS=","

/QUALIFIER="'"

/ARRANGEMENT=DELIMITED

/FIRSTCASE=2

/DATATYPEMIN PERCENTAGE=95.0

/VARIABLES=

Country\_A AUTO

Label AUTO

Time\_Period AUTO

ValueTotalP AUTO

ValueForeignP AUTO

ValueU AUTO

From\_Country AUTO

To\_Country AUTO

InflowValue AUTO

Inflow\_Time\_Period AUTO

country AUTO

/MAP.

RESTORE.

CACHE.

EXECUTE.

DATASET NAME DataSet3 WINDOW=FRONT.

DELETE VARIABLES to\_country.

DELETE VAR Country Inflow\_time\_period.

DELETE VAR From\_country.

RECODE Country\_A ("http://dbpedia.org/resource/Austria" = "Austria" )

("http://dbpedia.org/resource/Belgium" = "Belgium")

("http://dbpedia.org/resource/Bulgaria" = "Bulgaria")

("http://dbpedia.org/resource/Croatia" = "Croatia")

("http://dbpedia.org/resource/Cyprus" = "Cyprus")

("http://dbpedia.org/resource/Czech\_Republic" = "Czeh\_Rep")

("http://dbpedia.org/resource/Denmark" = "Denmark")

("http://dbpedia.org/resource/Estonia" = "Estonia")

("http://dbpedia.org/resource/Finland" = "Finland")

("http://dbpedia.org/resource/France" = "France")

("http://dbpedia.org/resource/Germany\_(until\_1990\_former\_territory\_of\_the\_FRG)" = "Germany")

("http://dbpedia.org/resource/Greece" = "Greece")

("http://dbpedia.org/resource/Hungary" = "Hungary")

("http://dbpedia.org/resource/Ireland" = "Ireland")

("http://dbpedia.org/resource/Italy" = "Italy")

("http://dbpedia.org/resource/Latvia" = "Latvia")

("http://dbpedia.org/resource/Lithuania" = "Lithuania")

("http://dbpedia.org/resource/Luxembourg" = "Luxemboug")

("http://dbpedia.org/resource/Malta" = "Malta")

("http://dbpedia.org/resource/Netherlands" = "Netherldans")

("http://dbpedia.org/resource/Norway" = "Norway")

("http://dbpedia.org/resource/Poland" = "Poland")

("http://dbpedia.org/resource/Portugal" = "Portugal")

("http://dbpedia.org/resource/Romania" = "Romania")

("http://dbpedia.org/resource/Slovakia" = "Slovakia")

("http://dbpedia.org/resource/Slovenia" = "Slovenia")

("http://dbpedia.org/resource/Spain" = "Spain")

("http://dbpedia.org/resource/Sweden" = "Sweden")

("http://dbpedia.org/resource/United\_Kingdom" = "UK").

EXE.

DELETE var label.

RENAME var (Country\_A = country).

RENAME VAR

(Time\_Period = year)

(ValueTotalp = pop)

(valueforeignp = foreign)

(valueu = unempl)

(inflowvalue = inflow).

exe.

\* Encoding: UTF-8.

cd 'F:\TRUMP-again'.

GET FILE = "complete\_data.sav".

COMPUTE rel\_inflow = inflow/pop.

COMPUTE rel\_for = foreign/pop.

execute.

DESCRIPTIVES VARIABLES=year pop foreign unempl inflow rel\_inflow rel\_for

/STATISTICS=MEAN STDDEV MIN MAX.

CORRELATIONS inflow foreign unempl pop rel\_for rel\_inflow.

TEMPORARY.

SELECT IF country = "Netherldans".

CORRELATIONS inflow foreign unempl pop.

TEMPORARY.

SELECT IF country = "Netherldans".

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

TEMPORARY.

SELECT IF country = "Germany".

CORRELATIONS inflow foreign unempl pop.

TEMPORARY.

SELECT IF country = "Germany".

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

TEMPORARY.

SELECT IF country = "UK".

CORRELATIONS inflow foreign unempl pop.

TEMPORARY.

SELECT IF country = "UK".

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

TEMPORARY.

SELECT IF country = "Italy".

CORRELATIONS inflow foreign unempl pop.

TEMPORARY.

SELECT IF country = "Italy".

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

TEMPORARY.

SELECT IF country = "France".

CORRELATIONS inflow foreign unempl pop.

TEMPORARY.

SELECT IF country = "France".

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

TEMPORARY.

SELECT IF country = "Greece".

CORRELATIONS inflow foreign unempl pop.

TEMPORARY.

SELECT IF country = "Greece".

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

\*SORT CASES BY country.

\*SPLIT FILE LAYERED BY country.

\*REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

\*SPLIT FILE OFF.

\*try to make country a numeric variable.

AUTORECODE VARIABLES=country

/INTO country\_code

/BLANK=MISSING

/PRINT.

exe.

RECODE country\_code (5 10 12 15 19 23 27 =1 ) (ELSE = 0) into south.

exe.

RECODE country\_code (7 9 21 28 =1 ) (ELSE = 0) into north.

exe.

RECODE country\_code (1 2 11 18 20 29 =1 ) (ELSE = 0) into central.

exe.

RECODE country\_code (4 6 8 13 16 22 26 =1 ) (ELSE = 0) into east.

exe.

DO IF (south = 1).

RECODE south (1=1) INTO geo.

END IF.

DO IF (north = 1).

RECODE north (1=2) INTO geo.

END IF.

DO IF (central = 1).

RECODE central (1=3) INTO geo.

END IF.

DO IF (east = 1).

RECODE east (1=4) INTO geo.

END IF.

EXECUTE.

\*do analyses diveded by the 4 geo groups

\*SORT CASES BY geo.

\*SPLIT FILE LAYERED BY geo.

\*DESCRIPTIVES VARIABLES=inflow rel\_inflow rel\_for pop unempl

/STATISTICS=MEAN STDDEV MIN MAX.

\*REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA CHANGE

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT rel\_inflow

/METHOD=ENTER unempl rel\_for.

\*SPLIT FILE OFF.

\*check for normality data distribution

EXAMINE VARIABLES=pop foreign unempl inflow rel\_inflow rel\_for

/PLOT NPPLOT

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

FREQUENCIES var all.

EXAMINE pop foreign inflow unempl rel\_inflow rel\_for

/PLOT = boxplot

COMPUTE inflow\_log=LG10(inflow).

EXECUTE.

EXAMINE VARIABLES=rinflow\_log

/PLOT NPPLOT

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

\* the relative variables are a bit better distributed than the other ones.

TEMPORARY.

FILTER by central.

EXAMINE VARIABLES=pop foreign unempl inflow rel\_inflow rel\_for

/PLOT NPPLOT

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

COMPUTE relinflow\_ln=LN(rel\_inflow).

EXECUTE.

EXAMINE VARIABLES=relinflow\_ln

/PLOT HISTOGRAM NPPLOT

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

COMPUTE relfor\_ln=LN(rel\_for).

EXECUTE.

EXAMINE VARIABLES=relfor\_ln

/PLOT HISTOGRAM NPPLOT

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

\* export in Mplus

SET LOCALE = 'en\_us'.

SHOW LOCALE.

RECODE year pop foreign unempl inflow rel\_inflow rel\_for country\_code

relinflow\_ln relfor\_ln (MISSING=9999).

SAVE TRANSLATE

/TYPE = CSV

/KEEP = year inflow pop foreign unempl rel\_inflow rel\_for country\_code

relinflow\_ln relfor\_ln geo

/OUTFILE = 'unified\_migration\_portal.dat'.

Mplus syntax (regressions with MLR)

TITLE:

First regression;

DATA:

FILE IS unified\_migration\_portal.dat;

VARIABLE:

NAMES ARE year inflow pop foreign unempl rinflow rfor country

rinfln rforln geo;

USEVAR = unempl rforln small ;

DEFINE:

small = (rinfln/ (-10));

ANALYSIS:

TYPE IS GENERAL;

ESTIMATOR IS MLR;

MODEL:

small on rforln unempl;

OUTPUT:

sampstat;

TITLE:

Single countries;

DATA:

FILE IS unified\_migration\_portal.dat;

VARIABLE:

NAMES ARE year inflow pop foreign unempl rinflow rfor country

rinfln rforln geo;

USEVAR = unempl rforln small;

GROUPING is country (20 =NL 11= D

13= HUN 15= IT);

DEFINE:

small = (rinfln/ (-10));

ANALYSIS:

TYPE IS GENERAL;

ESTIMATOR IS MLR;

MODEL:

small on rforln unempl;

OUTPUT:

sampstat;

TITLE:

Countries divided in 4 geo groups;

DATA:

FILE IS unified\_migration\_portal.dat;

VARIABLE:

NAMES ARE year inflow pop foreign unempl rinflow rfor country

rinfln rforln geo;

USEVAR = unempl rforln small;

GROUPING is geo (1 =south 2= north

3= center 4= east);

DEFINE:

small = (rinfln/ (-10));

ANALYSIS:

TYPE IS GENERAL;

ESTIMATOR IS MLR;

MODEL:

small on rforln unempl;

OUTPUT:

sampstat;