

```
*****
*****
// Intergenerational transmission of unemployment - evidence for German sons
// Miriam Mäder, Steffen Müller, Regina T. Riphahn, Caroline Schwiendek
*****
*****
```

```
version 12.1
set more off
set matsize 5000
```

```
global wdir "DATA PATH (SOEP-FILES)"
global wdirD "DATA PATH (GENERATED DATA/SAMPLES)"
global results "RESULTS PATH"
```

```
*****
*****
// Generate variables from the GSOEP
*****
*****
```

```
*****
*****PGEN*****
*****
```

```
cd "$wdir"
foreach welle in b c d e f g h i j k l m n o p q r s t u v w x y z ba bb bc a{
use `welle' pgen.dta, clear
keep emplst lfs nace *psbil *pbbl02 persnr hnrakt
gen welle_`welle' =1
save Temp\temppgen_`welle', replace
}
foreach welle in b c d e f g h i j k l m n o p q r s t u v w x y z ba bb bc{
append using Temp\temppgen_`welle'.dta
}
gen jahr=1984 if welle_a==1
replace jahr=1985 if welle_b==1
replace jahr=1986 if welle_c==1
replace jahr=1987 if welle_d==1
replace jahr=1988 if welle_e==1
replace jahr=1989 if welle_f==1
replace jahr=1990 if welle_g==1
replace jahr=1991 if welle_h==1
replace jahr=1992 if welle_i==1
replace jahr=1993 if welle_j==1
replace jahr=1994 if welle_k==1
replace jahr=1995 if welle_l==1
replace jahr=1996 if welle_m==1
replace jahr=1997 if welle_n==1
replace jahr=1998 if welle_o==1
replace jahr=1999 if welle_p==1
replace jahr=2000 if welle_q==1
replace jahr=2001 if welle_r==1
replace jahr=2002 if welle_s==1
replace jahr=2003 if welle_t==1
replace jahr=2004 if welle_u==1
replace jahr=2005 if welle_v==1
replace jahr=2006 if welle_w==1
replace jahr=2007 if welle_x==1
replace jahr=2008 if welle_y==1
replace jahr=2009 if welle_z==1
replace jahr=2010 if welle_ba==1
replace jahr=2011 if welle_bb==1
```

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```
replace jahr=2012 if welle_bc==1  
    label variable jahr "Jahr der Befragung"
```

```
drop welle_*
```

```
gen emplst =.  
gen lfs =.  
gen nace =.  
gen school =.  
gen college =.
```

```
    label var emplst "Employment Status"  
    label var lfs "Labor Force Status"  
    label var nace "Nomenclature des statistiques des activités économiques  
(Communauté européenne)"  
    label var school "Höchster Schulabschluss"  
    label var college "Höhere Bildung"
```

```
forvalues i=84/99{  
    rename emplst`i' emplst19`i'  
    rename lfs`i' lfs19`i'  
    rename nace`i' nace19`i'  
}  
foreach num in 00 01 02 03 04 05 06 07 08 09 10 11 12{  
    rename emplst`num' emplst20`num'  
    rename lfs`num' lfs20`num'  
    rename nace`num' nace20`num'  
}  
foreach num of numlist 1984/2012 {  
    replace emplst = emplst`num' if jahr == `num'  
    replace lfs = lfs`num' if jahr == `num'  
    replace nace = nace`num' if jahr == `num'  
}
```

```
    label values emplst emplst11_EN  
    label values lfs lfs11_EN  
    label values nace nace11_EN
```

```
forvalues i =1984/2012{  
    drop lfs`i'  
    drop emplst`i'  
    drop nace`i'  
}
```

```
renvars *psbil \ school 1984-school 2012 , display  
renvars *pbbil02 \ college1984-college2012 , display
```

```
foreach num of numlist 1984/2012 {  
    replace school = school`num' if jahr == `num'  
    replace college = college`num' if jahr == `num'  
}
```

```
    label values school psbil_EN  
    label values college bcpbil02_EN
```

```
forvalues i =1984/2012{  
    drop school`i'  
    drop college`i'  
}
```

```
cd "$wdirD"  
save PGEN-Variablen.dta, replace
```

```
*****  
*****HBRUTTO*****  
*****
```

```
cd "$wdir"  
foreach welle in b c d e f g h i j k l m n o p q r s t u v w x y z ba bb bc a {
```

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```

use `welle' hbrutto.dta, clear
keep hhnrakt `welle' bul a
gen welle_`welle'=1
save Temp\tempbrutto_`welle', replace
}
foreach welle in b c d e f g h i j k l m n o p q r s t u v w x y z ba bb bc{
append using Temp\tempbrutto_`welle'
}
gen jahr=1984 if welle_a==1
replace jahr=1985 if welle_b==1
replace jahr=1986 if welle_c==1
replace jahr=1987 if welle_d==1
replace jahr=1988 if welle_e==1
replace jahr=1989 if welle_f==1
replace jahr=1990 if welle_g==1
replace jahr=1991 if welle_h==1
replace jahr=1992 if welle_i==1
replace jahr=1993 if welle_j==1
replace jahr=1994 if welle_k==1
replace jahr=1995 if welle_l==1
replace jahr=1996 if welle_m==1
replace jahr=1997 if welle_n==1
replace jahr=1998 if welle_o==1
replace jahr=1999 if welle_p==1
replace jahr=2000 if welle_q==1
replace jahr=2001 if welle_r==1
replace jahr=2002 if welle_s==1
replace jahr=2003 if welle_t==1
replace jahr=2004 if welle_u==1
replace jahr=2005 if welle_v==1
replace jahr=2006 if welle_w==1
replace jahr=2007 if welle_x==1
replace jahr=2008 if welle_y==1
replace jahr=2009 if welle_z==1
replace jahr=2010 if welle_ba==1
replace jahr=2011 if welle_bb==1
replace jahr=2012 if welle_bc==1
    label variable jahr "Jahr der Befragung"

drop welle_*
renvars *bul a \ bul a1984-bul a2012

gen bul a=.

    label variable bul a "Bundesland"
    label define bul a b 1 "Schleswig Holstein [1]" 2 "Hamburg [2]" 3
"Niedersachsen [3]" 4 "Bremen [4]" 5 "Nordrhein Westfalen [5]" 6 "Hessen [6]" 7
"Rheinland Pfalz [7]" 8 "Baden Württemberg [8]" 9 "Bayern [9]" 10 "Saarland
[10]" 11 "Berlin [11]" 12 "Brandenburg [12]" 13 "Mecklenburg-Vorpommern [13]" 14
"Sachsen [14]" 15 "Sachsen Anhalt [15]" 16 "Thüringen [16]"
    label values bul a bul a b

foreach num of numlist 1984/2012 {
replace bul a = bul a`num' if jahr==`num'
}
label values bul a bbbul a_EN
drop bul a1984-bul a2012

cd "$wdi rD"
save HBRUTTO-Variablen.dta, replace

*****
*****PEQUIV*****
*****

cd "$wdi r"
foreach welle in b c d e f g h i j k l m n o p q r s t u v w x y z ba bb bc a{

```

```

use `welle' pequiv.dta, clear
keep e11106 persnr hhnrakt
gen welle_`welle'=1
save Temp\temppgen_`welle', replace
}
foreach welle in b c d e f g h i j k l m n o p q r s t u v w x y z ba bb bc{
append using Temp\temppgen_`welle'.dta
}
gen jahr=1984 if welle_a==1
replace jahr=1985 if welle_b==1
replace jahr=1986 if welle_c==1
replace jahr=1987 if welle_d==1
replace jahr=1988 if welle_e==1
replace jahr=1989 if welle_f==1
replace jahr=1990 if welle_g==1
replace jahr=1991 if welle_h==1
replace jahr=1992 if welle_i==1
replace jahr=1993 if welle_j==1
replace jahr=1994 if welle_k==1
replace jahr=1995 if welle_l==1
replace jahr=1996 if welle_m==1
replace jahr=1997 if welle_n==1
replace jahr=1998 if welle_o==1
replace jahr=1999 if welle_p==1
replace jahr=2000 if welle_q==1
replace jahr=2001 if welle_r==1
replace jahr=2002 if welle_s==1
replace jahr=2003 if welle_t==1
replace jahr=2004 if welle_u==1
replace jahr=2005 if welle_v==1
replace jahr=2006 if welle_w==1
replace jahr=2007 if welle_x==1
replace jahr=2008 if welle_y==1
replace jahr=2009 if welle_z==1
replace jahr=2010 if welle_ba==1
replace jahr=2011 if welle_bb==1
replace jahr=2012 if welle_bc==1
    label variable jahr "Jahr der Befragung"

drop welle_*
gen industry =.
    label var industry "1 digit industry code"

forvalues i=84/99{
rename e11106`i' e1110619`i'
}
foreach num in 00 01 02 03 04 05 06 07 08 09 10 11 12{
rename e11106`num' e1110620`num'
}

foreach num of numlist 1984/2012 {
replace industry = e11106`num' if jahr == `num'
}
label values industry e1110611_EN
drop e111061984- e111062012

cd "$wdi rD"
save PEQUIV-Variablen.dta, replace

*****
*****BI OPAREN-Vater*****
*****

cd "$wdi r"
use bioparen.dta, clear
keep persnr vsbil vbil vbstell

cd "$wdi rD"

```

```
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save BIOPAREN-Variablen_Vater.dta, replace
```

```
*****
*****BIOPAREN-Mutter*****
*****
```

```
cd "$wdir"
use bioparen.dta, clear
keep persnr msbil mbbil mbstell
```

```
cd "$wdirD"
save BIOPAREN-Variablen_Mutter.dta, replace
```

```
*****
*****
```

```
// Definition of variables
```

```
*****
*****
```

```
* Arbeitslosigkeit.dta
```

```
cd "$wdirD"
use PGEN-Variablen.dta, clear
keep persnr jahr hhnrakt emplst lfs nace school college
```

```
gen AL_1 = .
  label var AL_1 "=1 if unemployed (definition #1)"
  replace AL_1 = 0 if emplst == 1 | emplst == 2 | emplst == 3 | emplst ==
4 | emplst == 6
  replace AL_1 = 0 if emplst == 5 & lfs != 6
  replace AL_1 = 1 if emplst == 5 & lfs == 6
```

```
gen AL_2 = .
  label var AL_2 "=1 if unemployed (definition #2)"
  replace AL_2 = 0 if emplst == 1 | emplst == 2 | emplst == 3 | emplst ==
4 | emplst == 6
  replace AL_2 = 0 if emplst == 5 & lfs == 3 ///
  | emplst == 5 & lfs == 4 ///
  | emplst == 5 & lfs == 5 ///
  | emplst == 5 & lfs == 7 ///
  | emplst == 5 & lfs == 8 ///
  | emplst == 5 & lfs == 9 ///
  | emplst == 5 & lfs == 10 ///
  | emplst == 5 & lfs == 11 ///
  | emplst == 5 & lfs == 12
  replace AL_2 = 1 if emplst == 5 & lfs == 1 ///
  | emplst == 5 & lfs == 2 ///
  | emplst == 5 & lfs == 6
```

```
recode school college (-3 -2 -1 =.)
save Arbeitslosigkeit.dta, replace
```

```
* Bula_HH.dta
```

```
cd "$wdirD"
use HBRUTTO-Variablen.dta, clear
```

```
recode bula (-1 -2 -3=.)
sort hhnrakt jahr
save Bula_HH.dta, replace
```

```
* Vaterbildung.dta
```

```
cd "$wdirD"
use BIOPAREN-Variablen_Vater, clear
```

```
mvdecode vsbil vbbil vbstell, mv(-3 -2 -1 0=.)
```

```

rename vsbil Vater_Schule
rename vbhil Vater_hBildung
rename vbstell Vater_Beruf

cd "$wdi rD"
sort persnr
save Vaterbildung, replace

* Mutterbildung.dta

cd "$wdi rD"
use BIOPAREN-Variablen_Mutter, clear

mvdecode msbil mbhil mbstell, mv(-3 -2 -1 0=.)

rename msbil Mutter_Schule
rename mbhil Mutter_hBildung
rename mbstell Mutter_Beruf

cd "$wdi rD"
sort persnr
save Mutterbildung, replace

* Vatercharakteristika.dta

cd "$wdi r"
use ppfad.dta, clear

keep persnr gebjahr mi gback

rename gebjahr gebjahr_Vater
rename mi gback mi gback_Vater
    label var gebjahr_Vater "Geburtsjahr Vater"
    label var mi gback_Vater "Mi grationshintergrund Vater"

cd "$wdi rD"
sort persnr
save Vatercharakteristika, replace

* Muttercharakteristika.dta

cd "$wdi r"
use ppfad.dta, clear

keep persnr gebjahr mi gback

rename gebjahr gebjahr_Mutter
rename mi gback mi gback_Mutter
    label var gebjahr_Mutter "Geburtsjahr Mutter"
    label var mi gback_Mutter "Mi grationshintergrund Mutter"

cd "$wdi rD"
sort persnr
save Muttercharakteristika, replace

* Kindcharakteristika_Sohn.dta

cd "$wdi r"
use ppfad.dta, clear
keep persnr sex gebjahr mi gback

    label var sex "Geschlecht Sohn"
    label var gebjahr "Geburtsjahr Sohn"
    label var mi gback "Mi grationshintergrund Sohn"

cd "$wdi rD"
sort persnr

```

```
save Kindcharakteristika_Sohn, replace
```

```
* Geschwister.dta
```

```
cd "$wdir"
use ppfad.dta, clear
    keep persnr hhnr
    sort persnr
```

```
merge 1:1 persnr using bioparen
drop _merge
```

```
keep persnr hhnr mnr geschw nums numb
rename persnr ID
rename mnr persnr
```

```
sort persnr
merge m:1 persnr using biobirth
```

```
keep ID persnr hhnr sumkids geschw nums numb
rename persnr mnr
rename ID persnr
```

```
keep if persnr !=.
sort persnr
merge 1:1 persnr using hp
drop _merge
```

```
sort persnr
merge 1:1 persnr using mp
drop _merge
```

```
sort persnr
merge 1:1 persnr using rp
drop _merge
```

```
sort persnr
merge 1:1 persnr using tp
drop _merge
```

```
sort persnr
merge 1:1 persnr using wp
drop _merge
```

```
keep persnr hhnr mnr sumkids hp1319 hp1323 mp09h02 mp09g02 rp107h02 rp107g02
tp13703 tp13702 wp11721 wp11724 geschw nums numb
recode hp1319 hp1323 mp09h02 mp09g02 rp107h02 rp107g02 tp13703 tp13702 wp11721
wp11724 (-3 -1=.) (-2=0), copyrest
```

```
egen Schwestern1=rowmax(wp11721 tp13703 rp107h02 mp09h02 hp1323)
egen Brüder1=rowmax(wp11724 tp13702 rp107g02 mp09g02 hp1319)
gen Geschwister1=Schwestern1+Brüder1
```

```
gen Kinder = sumkids if sumkids != 0
gen Geschwister2 = Kinder - 1
```

```
recode geschw (-2 -1 =.)
recode nums numb(-1=.)
gen Schwestern2=nums if nums != -2
replace Schwestern2 = 0 if geschw == 1 & nums == -2
replace Schwestern2 = 0 if geschw == 2
gen Brüder2=numb if numb != -2
replace Brüder2 = 0 if geschw == 1 & numb == -2
replace Brüder2 = 0 if geschw == 2
gen Geschwister3 = Schwestern2 + Brüder2
```

```
egen Geschwister=rowmax(Geschwister1 Geschwister2 Geschwister3)
label var Geschwister "Anzahl Geschwister"
```

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```

merge 1:1 persnr using biosib
keep persnr Geschwister num_sib
replace num_sib = num_sib - 1 if num_sib !=.

replace Geschwister = num_sib if Geschwister ==.
replace Geschwister = num_sib if num_sib > Geschwister & num_sib !=.
drop num_sib

cd "$wdirD"
sort persnr
save Geschwister, replace

* Reihenfolge_Geschwister.dta

cd "$wdir"
use biosib, clear
keep persnr pos_sib
recode pos_sib (-2=.)
rename pos_sib birthorder
      label var birthorder "Birth Order"

cd "$wdirD"
sort persnr
save Reihenfolge_Geschwister.dta, replace

* Branchen-Dummies_1DIC.dta

cd "$wdirD"
use PEQUIV-Variablen.dta, clear
keep persnr jahr industry

recode industry (-2 -1 0 =.)
sort persnr jahr
save Branchen_Dummies_1DIC.dta, replace

duplicates drop persnr, force
keep persnr
expand 39
bysort persnr: gen jahr=_n
replace jahr = 1973 + jahr

merge 1:m persnr jahr using Branchen_Dummies_1DIC.dta
drop _merge
erase Branchen_Dummies_1DIC.dta

sort persnr jahr
foreach jahr in 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999
1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983
1982 1981 1980 1979 1978 1977 1976 1975 1974{
replace industry = industry[_n+1] if jahr == `jahr' & industry == .
}

by persnr (jahr): egen perioden_branche = count(industry)
drop if perioden_branche == 0
drop perioden_branche
rename industry ind1dic

sort persnr jahr
save Initial_Industry_1DIC.dta, replace

* Branchen-Dummies_2DIC.dta

cd "$wdirD"
use PGEN-Variablen.dta, clear
keep persnr jahr nace

```

```

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recode nace (-3 -2 -1 0 =.)
sort persnr jahr
save Branchen_Dummies_2DIC.dta, replace

duplicates drop persnr, force
keep persnr
expand 39
bysort persnr: gen jahr=_n
replace jahr = 1973 + jahr

merge 1:m persnr jahr using Branchen_Dummies_2DIC.dta
drop _merge
erase Branchen_Dummies_2DIC.dta

sort persnr jahr
foreach jahr in 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999
1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983
1982 1981 1980 1979 1978 1977 1976 1975 1974{
replace nace = nace[_n+1] if jahr == `jahr' & nace == .
}

by persnr (jahr): egen perioden_branche = count(nace)
drop if perioden_branche == 0
drop perioden_branche
rename nace ind2dic

sort persnr jahr
save Initial_Industry_2DIC.dta, replace

* ALri si ko_pgen.dta

cd "$wdi rD"
use PGEN-Variables, clear
keep persnr jahr emplst lfs nace

qui tab1 emplst lfs nace, m
recode emplst lfs nace (-3 -2 -1 = .)

gen not_employed = .
replace not_employed = 1 if emplst == 5
replace not_employed = 0 if emplst == 1 | emplst == 2 | emplst == 3 | emplst == 4
| emplst == 6
drop if not_employed == .
label var not_employed "Employment Status = not employed"

sort persnr jahr
by persnr (jahr): egen perioden_soep = count(jahr)
by persnr (jahr): egen perioden_branche = count(nace)
drop if perioden_branche == 0

rename nace industry
sort persnr jahr
keep persnr jahr industry not_employed
cd "$wdi rD"
save risiko_2DIC, replace

use risiko_2DIC, clear

keep persnr
duplicates drop persnr, force
expand 29
sort persnr
by persnr: gen jahr=_n
replace jahr = 1983+jahr
merge 1:1 persnr jahr using risiko_2DIC.dta
drop _merge

gen ind_full = industry

```

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```

bysort persnr (jahr): replace ind_full = ind_full[_n-1] if ind_full[_n] == .

sort persnr jahr
foreach jahr in 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999
1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 {
bysort persnr: replace ind_full = ind_full[_n+1] if jahr == `jahr' & ind_full
== .
}

gen jahr_ind=jahr if industry!=.
bysort persnr: egen jahr_indf_pgen = min(jahr_ind)

gen ind1=industry if not_employed==0
bysort persnr: replace ind1 = industry[_n-1] if industry[_n]==. & not_employed
==1

gen ind5=industry if not_employed==0
bysort persnr: replace ind5 = industry[_n-1] if ind5[_n]==. & industry[_n-1] !=.
& not_employed ==1
bysort persnr: replace ind5 = industry[_n-2] if ind5[_n]==. & industry[_n-2] !=.
& not_employed ==1
bysort persnr: replace ind5 = industry[_n-3] if ind5[_n]==. & industry[_n-3] !=.
& not_employed ==1
bysort persnr: replace ind5 = industry[_n-4] if ind5[_n]==. & industry[_n-4] !=.
& not_employed ==1
bysort persnr: replace ind5 = industry[_n-5] if ind5[_n]==. & industry[_n-5] !=.
& not_employed ==1

sort ind1 jahr
bysort ind1 jahr: egen double anz1 = count(persnr) if ind1!=. & not_employed !=
.
bysort ind1 jahr: egen double sum1 = sum(not_employed) if ind1!=. &
not_employed != .
gen double risk1 = sum1 / anz1 if ind1!=. & not_employed != .

bysort ind5 jahr: egen double anz5 = count(persnr) if ind5!=. & not_employed
!= .
bysort ind5 jahr: egen double sum5 = sum(not_employed) if ind5!=. &
not_employed != .
gen double risk5 = sum5 / anz5 if ind5!=. & not_employed != .

bysort ind_full jahr: egen AL1_pgen = max(risk1) if jahr!= 1984
bysort ind_full jahr: egen AL5_pgen = max(risk5) if jahr!= 1984

label var industry "nace industry code"
label var AL1_pgen "AL-Risiko - 1 Jahr Definition - 2 digit industry code"
label var industry "nace industry code"
label var AL5_pgen "AL-Risiko - 5 Jahr Definition - 2 digit industry code"

rename ind_full ind_pgen
keep AL1_pgen AL5_pgen persnr jahr jahr_indf_pgen ind_pgen
sort persnr jahr
save ALrisiko_pgen, replace

* ALrisiko_pequiv.dta

cd "$wdird"
use PEQUIV-Variablen, clear
keep persnr jahr industry
recode industry (-3 -2 -1 0= .)

sort persnr jahr
merge m:m persnr jahr using PGEN-Variablen
keep if _merge == 3
drop _merge nace
recode emplst lfs (-3 -2 -1 = .)

gen not_employed = .

```

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```

replace not_employed = 1 if emplst == 5
replace not_employed = 0 if emplst == 1 | emplst == 2 | emplst == 3 | emplst == 4
| emplst == 6
drop if not_employed == .
    label var not_employed "Employment Status = not employed"

sort persnr jahr
by persnr (jahr): egen perioden_soep = count(jahr)
by persnr (jahr): egen perioden_branche = count(industry)
drop if perioden_branche == 0

sort persnr jahr
keep persnr jahr industry not_employed
save risiko_1DIC, replace

use risiko_1DIC, clear

keep persnr
duplicates drop persnr, force
expand 29
sort persnr
by persnr: gen jahr=_n
replace jahr = 1983+jahr
merge 1:1 persnr jahr using risiko_1DIC.dta
drop _merge

gen ind_full = industry
bysort persnr (jahr): replace ind_full = ind_full[_n-1] if ind_full[_n] == .

sort persnr jahr
foreach jahr in 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999
1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 {
bysort persnr: replace ind_full = ind_full[_n+1] if jahr == `jahr' & ind_full
== .
}

gen jahr_ind=jahr if industry!=.
bysort persnr: egen jahr_indf_pequiv = min(jahr_ind)

sort persnr jahr
gen ind1=industry if not_employed==0
bysort persnr : replace ind1 = industry[_n-1] if industry[_n]==. &
not_employed==1

gen ind5=industry if not_employed==0
bysort persnr : replace ind5 = industry[_n-1] if ind5[_n]==. & industry[_n-1]
!=. & not_employed==1
bysort persnr : replace ind5 = industry[_n-2] if ind5[_n]==. & industry[_n-2]
!=. & not_employed==1
bysort persnr : replace ind5 = industry[_n-3] if ind5[_n]==. & industry[_n-3]
!=. & not_employed==1
bysort persnr : replace ind5 = industry[_n-4] if ind5[_n]==. & industry[_n-4]
!=. & not_employed==1
bysort persnr : replace ind5 = industry[_n-5] if ind5[_n]==. & industry[_n-5]
!=. & not_employed==1

sort ind1 jahr
bysort ind1 jahr: egen double anz1 = count(persnr) if ind1!=. & not_employed!=.
bysort ind1 jahr: egen double sum1 = sum(not_employed) if ind1!=. &
not_employed!=.
gen double risk1 = sum1 / anz1 if ind1!=. & not_employed!=.

bysort ind5 jahr: egen double anz5 = count(persnr) if ind5!=. & not_employed!=.
bysort ind5 jahr: egen double sum5 = sum(not_employed) if ind5!=. &
not_employed!=.
gen double risk5 = sum5 / anz5 if ind5!=. & not_employed!=.

bysort ind_full jahr: egen AL1_pequiv = max(risk1) if jahr!= 1984

```

```
bysort ind_full jahr: egen AL5_pequiv = max(ri sk5) if jahr!= 1984
```

```
label var AL1_pequiv "AL-Risiko - 1 Jahr Definition - 1 digit industry code"
label var industry "nace industry code"
label var AL5_pequiv "AL-Risiko - 5 Jahr Definition - 1 digit industry code"
```

```
rename ind_full ind_equiv
keep AL1_pequiv AL5_pequiv persnr jahr jahr_indf_pequiv ind_equiv
sort persnr jahr
save ALrisiko_pequiv, replace
```

```
*****
*****
```

```
// Information on sons
```

```
*****
*****
```

```
cd "$wdi rD"
use Arbeitslosigkeit.dta, clear
```

```
merge m:1 persnr using Kindcharakteristika_Sohn.dta
keep if _merge==3
drop _merge
```

```
recode gebjahr (-1=.)
gen alter=jahr - gebjahr
label var alter "Alter Sohn"
renvars emplst lfs AL_1 AL_2 gebjahr mi gback alter nace \ emplst_Sohn
lfs_Sohn AL_1_Sohn AL_2_Sohn gebjahr_Sohn mi gback_Sohn alter_Sohn nace_Sohn
```

```
keep if alter >=17 & alter <= 24
keep if sex == 1
drop sex
```

```
sort persnr jahr
drop if AL_1 ==. | AL_2 ==.
```

```
bysort persnr: egen Count = count(persnr)
bysort persnr: egen ANZ_1_Sohn = sum(AL_1)
bysort persnr: egen ANZ_2_Sohn = sum(AL_2)
bysort persnr: gen Miss_Sohn = 8 - Count
```

```
label var ANZ_1_Sohn "Number of years unemployed son - Def #1"
label var ANZ_2_Sohn "Number of years unemployed son - Def #2"
label var Miss_Sohn "Number of years not responded between age 17 and 24"
```

```
keep persnr jahr hhnrakt emplst_Sohn lfs_Sohn AL_1_Sohn AL_2_Sohn gebjahr_Sohn
mi gback_Sohn alter_Sohn ANZ_1_Sohn ANZ_2_Sohn Miss_Sohn nace_Sohn school college
```

```
save Sohni nfo , replace
```

```
sort persnr
merge m:1 persnr using Geschwister.dta
keep if _merge == 3
drop _merge
```

```
sort persnr
merge m:1 persnr using Reihenfolge_Geschwister.dta
drop if _merge == 2
drop _merge
```

```
sort hhnrakt jahr
merge m:1 hhnrakt jahr using Bula_HH.dta
drop if _merge == 2
drop _merge
```

```
glo X Geschwister birthorder hhnrakt bula college school
foreach var in $X{
```

```

rename `var' `var' _Sohn
}

save Sohni nfo. dta , repl ace

*****
*****
// Combinations father and sons
*****
*****

cd "$wdi rD"
use Sohni nfo. dta, cl ear

dupli cates drop persnr, force
keep persnr gebj ahr

cd "$wdi r"
merge 1:1 persnr usi ng bi oparen , keepusi ng(vnr)
keep i f _merge==3
drop _merge

rename gebj ahr gebj ahr_ki nd
rename persnr ID
rename vnr persnr

keep i f persnr != -3 & persnr != -2 & persnr != -1
count
cd "$wdi rD"
save Vater_Sohn_Kombi nati onen. dta, repl ace

cd "$wdi rD"
use Vater_Sohn_Kombi nati onen. dta, cl ear
sort persnr gebj ahr_ki nd

gen Gebj ahr_Ki nd1=.
repl ace Gebj ahr_Ki nd1=gebj ahr_ki nd i f persnr[_n] != persnr[_n-1]

gen Gebj ahr_Ki nd2=.
repl ace Gebj ahr_Ki nd2=gebj ahr_ki nd i f Gebj ahr_Ki nd1[_n]==. & Gebj ahr_Ki nd1[_n-1]
!=.

gen Gebj ahr_Ki nd3=.
repl ace Gebj ahr_Ki nd3=gebj ahr_ki nd i f Gebj ahr_Ki nd1[_n]==. &
Gebj ahr_Ki nd2[_n]==. & Gebj ahr_Ki nd2[_n-1]! =.

gen Gebj ahr_Ki nd4=.
repl ace Gebj ahr_Ki nd4=gebj ahr_ki nd i f Gebj ahr_Ki nd1[_n]==. &
Gebj ahr_Ki nd2[_n]==. & Gebj ahr_Ki nd3[_n]==. & Gebj ahr_Ki nd3[_n-1]! =.

gen Gebj ahr_Ki nd5=.
repl ace Gebj ahr_Ki nd5=gebj ahr_ki nd i f Gebj ahr_Ki nd1[_n]==. &
Gebj ahr_Ki nd2[_n]==. & Gebj ahr_Ki nd3[_n]==. & Gebj ahr_Ki nd4[_n]==. &
Gebj ahr_Ki nd4[_n-1]! =.

gen Gebj ahr_Ki nd6=.
repl ace Gebj ahr_Ki nd6=gebj ahr_ki nd i f Gebj ahr_Ki nd1[_n]==. &
Gebj ahr_Ki nd2[_n]==. & Gebj ahr_Ki nd3[_n]==. & Gebj ahr_Ki nd4[_n]==. &
Gebj ahr_Ki nd5[_n]==. & Gebj ahr_Ki nd5[_n-1]! =.

gen Gebj ahr_Ki nd7=.
repl ace Gebj ahr_Ki nd7=gebj ahr_ki nd i f Gebj ahr_Ki nd1[_n]==. &
Gebj ahr_Ki nd2[_n]==. & Gebj ahr_Ki nd3[_n]==. & Gebj ahr_Ki nd4[_n]==. &
Gebj ahr_Ki nd5[_n]==. & Gebj ahr_Ki nd6[_n]==. & Gebj ahr_Ki nd6[_n-1]! =.

forval ues i = 1/7{
recode Gebj ahr_Ki nd`i' (. = 0)

```

```

}
forvalues i=1/7{
  bysort persnr (ID): egen K`i' = max(Gebjahr_Kind`i')
    label var K`i' "Geburtsjahr Kind #`i'"
}
forvalues i=1/7{
  gen ID_Kind`i' =.
  replace ID_Kind`i' = ID if Gebjahr_Kind`i' !=0
}
forvalues i = 1/7{
  recode ID_Kind`i' (. = 0)
}
forvalues i=1/7{
  bysort persnr (ID): egen ID_K`i' = max(ID_Kind`i')
    label var ID_K`i' "Personennummer Kind #`i'"
}
duplicates drop persnr , force

keep persnr K1-K7 ID_K1-ID_K7
recode K1 - K7 (0 = .)
recode ID_K1 - ID_K7 (0 = .)

renvars K1-K7 \ gebjahr_kind1 gebjahr_kind2 gebjahr_kind3 gebjahr_kind4
gebjahr_kind5 gebjahr_kind6 gebjahr_kind7
renvars ID_K1-ID_K7 \ persnr_kind1 persnr_kind2 persnr_kind3 persnr_kind4
persnr_kind5 persnr_kind6 persnr_kind7

cd "$wdird"
sort persnr
save Vater_Sohn_Kombinationen2, replace

forvalues i=1/7{
  use Vater_Sohn_Kombinationen2, clear
  keep persnr gebjahr_kind`i' persnr_kind`i'
  drop if gebjahr_kind`i' ==.
  save Vater_Sohn`i', replace
}
erase Vater_Sohn_Kombinationen2.dta

*****
*****
// State of residence father (son aged 10)
*****
*****

cd "$wdird"
forval i =1/7{
  use Vater_Sohn`i', clear
  sort persnr
  merge 1:m persnr using PGEN-Variablen.dta
  keep if _merge == 3
  gen alter_kind=jahr-gebjahr_kind`i'
  keep if alter_kind ==10
  sort persnr jahr

  drop _merge nace lfs emplst school college gebjahr_kind alter_kind
  sort hhnrakt jahr

  merge 1:1 hhnrakt jahr using Bul_a_HH.dta
  keep if _merge == 3
  drop _merge hhn hhnrakt jahr

  save Bul_aVater_Sohn_10`i'.dta, replace
}

use Bul_aVater_Sohn_101.dta, clear
forval i=2/7{
  append using Bul_aVater_Sohn_10`i'.dta

```

```

}

forval i=1/7{
erase Bul aVater_Sohn_10`i' .dta
}

drop persnr
gen persnr=.
forval i=1/7{
replace persnr = persnr_ki nd`i' if persnr ==.
drop persnr_ki nd`i'
}

sort persnr
save Bul aVater_Sohn10.dta, repl ace

*****
*****
// Unemployment father to
*****
*****

cd "$wdi rD"
forval i=1/7{
use Vater_Sohn`i', clear
sort persnr
merge 1:m persnr using Arbei tsi osi gkei t.dta
keep if _merge==3
drop _merge hhnrakt empl st l fs nace school col lege

rename persnr nr_vater
sort nr_vater j ahr
gen alter_ki nd=j ahr-gebj ahr_ki nd`i'
label var alter_ki nd "Al ter des Ki ndes"
keep if alter_ki nd >=10 & alter_ki nd <= 15

forval u=1/2{
bysort nr_vater (j ahr): egen Vater_AL_`u' = max(AL_`u')
label var Vater_AL_`u' "Vater j emal s arbei tsi os (AL_`u')? al s Ki nd
zwi schen 10 und 15?"
}
bysort nr_vater: egen Count_Vater_before = count(nr_vater)
bysort nr_vater: egen ANZ_1_Vater_before = sum(AL_1)
bysort nr_vater: egen ANZ_2_Vater_before = sum(AL_2)
bysort nr_vater: gen Mi ss_Vater_before = 6 - Count

label var ANZ_1_Vater_before "Number of years unemployed father before- Def #1"
label var ANZ_2_Vater_before "Number of years unemployed father before - Def #2"
label var Mi ss_Vater_before "Number of years not responded father before"

duplicates drop nr_vater, force
keep nr_vater persnr_ki nd`i' gebj ahr_ki nd`i' Vater_AL_1 Vater_AL_2
persnr_ki nd`i' ANZ_1_Vater_before ANZ_2_Vater_before Mi ss_Vater_before
Count_Vater_before

rename gebj ahr_ki nd`i' gebj ahr_Sohn
rename persnr_ki nd`i' persnr_Sohn
save AL_Vater_Sohn`i', repl ace
}
use AL_Vater_Sohn1, clear
forval i=2/7{
append usi ng AL_Vater_Sohn`i'
}

forval i=1/7{
erase AL_Vater_Sohn`i' .dta
}

```

```

}
label var persnr_Sohn "Personennr. Sohn"

sort nr_vater
save Vaterarbeitlosigkeit_Sohn.dta, replace

*****
*****
// Unemployment father t2
*****
*****

cd "$wdirD"
forvalues i=1/6{

use Vater_Sohn`i', clear
sort persnr
merge 1:m persnr using Arbeitlosigkeit.dta
keep if _merge==3
drop _merge hhnrakt emplst lfs nace school college

rename persnr nr_vater
sort nr_vater jahr
gen alter_kind=jahr-gebjahr_kind`i'
label var alter_kind "Alter des Kindes"
keep if alter_kind >=25 & alter_kind <= 30

forvalues u=1/2{
bysort nr_vater (jahr): egen Vater_Kind`i' _AL_`u' = max(AL_`u')
label var Vater_Kind`i' _AL_`u' "Vater jemals arbeitslos (AL_`u', Kind
`i') als Kind im Alter zwischen 25 und 30?"
}
bysort nr_vater: egen Count_Vater_after = count(nr_vater)
bysort nr_vater: egen ANZ_1_Vater_after = sum(AL_1)
bysort nr_vater: egen ANZ_2_Vater_after = sum(AL_2)
bysort nr_vater: gen Miss_Vater_after = 6 - Count

label var ANZ_1_Vater_after "Number of years unemployed father after- Def #1"
label var ANZ_2_Vater_after "Number of years unemployed father after - Def #2"
label var Miss_Vater_after "Number of years not responded father after"

duplicates drop nr_vater, force
keep nr_vater persnr_kind`i' Vater_Kind`i' _AL_1 Vater_Kind`i' _AL_2
persnr_kind`i' ANZ_1_Vater_after ANZ_2_Vater_after Miss_Vater_after
Count_Vater_after
rename persnr_kind`i' persnr_Sohn
save AL_Vater_Sohn`i' _after, replace
}
use AL_Vater_Sohn1_after, clear
forval i=2/6{
append using AL_Vater_Sohn`i' _after
}

forval i=1/6{
erase AL_Vater_Sohn`i' _after.dta
}
label var persnr_Sohn "persnr Sohn"
drop Vater_Kind1_AL_1 Vater_Kind1_AL_2 Vater_Kind2_AL_1-Vater_Kind6_AL_2
gen persnr = persnr_Sohn
sort persnr
save Vaterarbeitlosigkeit_Sohn_after.dta, replace

*****
*****
// Unemployment father (robustness test - son age 10-13)
*****
*****

```

```

cd "$wdi rD"
forvalues i=1/7{
use Vater_Sohn`i', clear
sort persnr
merge 1:m persnr using Arbei tslo si gkei t. dta
keep if _merge==3
drop _merge hhnrakt empl st l fs nace school college

rename persnr nr_vater
sort nr_vater jahr
gen alter_ki nd=jahr-gebjahr_ki nd`i'
      label var alter_ki nd "Al ter des Ki ndes"
keep if alter_ki nd >=10 & alter_ki nd <= 13

forvalues u=1/2{
bysort nr_vater (jahr): egen Vater_AL_`u' = max(AL_`u')
      label var Vater_AL_`u' "Vater jemals arbei tslo s (AL_`u')? al s Ki nd
      zwis chen 10 und 13?"
}
bysort nr_vater: egen Count_Vater_before = count(nr_vater)
bysort nr_vater: egen ANZ_1_Vater_before = sum(AL_1)
bysort nr_vater: egen ANZ_2_Vater_before = sum(AL_2)
bysort nr_vater: gen Mi ss_Vater_before = 4 - Count

label var ANZ_1_Vater_before "Number of years unemployed father before- Def #1"
label var ANZ_2_Vater_before "Number of years unemployed father before - Def #2"
label var Mi ss_Vater_before "Number of years not responded father before"

duplicates drop nr_vater, force
keep nr_vater persnr_ki nd`i' gebj ahr_ki nd`i' Vater_AL_1 Vater_AL_2
persnr_ki nd`i' ANZ_1_Vater_before ANZ_2_Vater_before Mi ss_Vater_before
Count_Vater_before

rename gebj ahr_ki nd`i' gebj ahr_Sohn
rename persnr_ki nd`i' persnr_Sohn
save AL_Vater_Sohn`i' _10_13, repl ace
}
use AL_Vater_Sohn1_10_13, clear
forval i=2/7{
append using AL_Vater_Sohn`i' _10_13
}

forval i=1/7{
erase AL_Vater_Sohn`i' _10_13. dta
}
label var persnr_Sohn "Personennr. Sohn"

sort nr_vater
save Vaterarbei tslo si gkei t_Sohn_10_13. dta, repl ace

*****
*****
// Merge
*****
*****

cd "$wdi rD"
use Vaterarbei tslo si gkei t_Sohn, clear

gen persnr=persnr_Sohn
sort persnr
merge 1:1 persnr using Vaterbi ldung. dta
keep if _merge == 3
drop _merge
sort persnr
merge 1:1 persnr using Bul aVater_Sohn10. dta
drop if _merge == 2
drop _merge

```

```

sort persnr
merge 1:1 persnr using Vaterarbeitlosigkeit_Sohn_after.dta
drop if _merge ==2
drop _merge

replace persnr=nr_vater
sort persnr
merge m:1 persnr using Vatercharakteristika.dta
drop if _merge == 2
drop _merge

gen jahr = gebjahr_Sohn
sort persnr jahr
merge m:1 persnr jahr using Initial_Industry_1DIC.dta
drop if _merge == 2
drop _merge

sort persnr jahr
merge m:1 persnr jahr using Initial_Industry_2DIC.dta
drop if _merge == 2
drop _merge

drop jahr

renvars  bul a\  bul a_Vater

gen jahr = gebjahr_Sohn + 8

sort persnr jahr
merge m:1 persnr jahr using ALrisiko_pgen
drop if _merge == 2
drop _merge

sort persnr jahr
merge m:1 persnr jahr using ALrisiko_pequiv
drop if _merge == 2
drop _m

drop jahr

replace persnr=persnr_Sohn

sort persnr
merge m:m persnr using Sohni nfo.dta
keep if _merge == 3
drop _merge

qui tab school , m gen(D_School_)

forval i=1/8{
bysort persnr_Sohn: egen MAX_School_`i' =max(D_School_`i')
drop D_School_`i'
}
gen SchoolMAX =.
replace SchoolMAX = 4 if MAX_School_4 == 1 & school !=.
replace SchoolMAX = 3 if MAX_School_3 == 1 & MAX_School_4 != 1 & school !=.
replace SchoolMAX = 2 if MAX_School_2 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & school !=.
replace SchoolMAX = 1 if MAX_School_1 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & school !=.
replace SchoolMAX = 5 if MAX_School_5 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & MAX_School_1 !=1 & school !=.
replace SchoolMAX = 7 if MAX_School_7 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & MAX_School_1 !=1 & MAX_School_5 !=1 & school !=.
replace SchoolMAX = 6 if MAX_School_6 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & MAX_School_1 !=1 & MAX_School_5 !=1 & MAX_School_7 !=1 &
school !=.

```

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label values SchoolMAX apsbiI_EN

```
*****
*****
// Final sample / definition variables
*****
*****
```

* Education son

```
gen sonbil = school_Sohn
recode sonbil (4 = 3) (5 6 . = 4) (7=5), copyrest
label define SBIL 1 "Lower secondary school degree (Hauptschulabschluss)" 2
"Intermediate school degree (Mittlere Reife)" ///
3 "Upper secondary school degree (Abitur)/Technical
secondary school degree (Fachhochschule)" 4 "Other degree / No school degree /
Missing information" 5 "Currently in school"
label values sonbil SBIL
```

* Siblings

```
gen sibs = Geschwister_Sohn
replace sibs = 4 if sibs > 4
```

* Birth order

```
gen birtho = birthorder_Sohn
replace birtho = 4 if birthorder_Sohn > 3 & birthorder_Sohn != .
replace birtho = 99 if birthorder_Sohn == .
```

* Fathers postsecondary education

```
gen fathbil = 1 if Vater_hBildung == 10 | Vater_hBildung >= 50
replace fathbil = 2 if Vater_hBildung >= 20 & Vater_hBildung < 24
replace fathbil = 2 if Vater_hBildung == 40
replace fathbil = 3 if Vater_hBildung >= 24 & Vater_hBildung < 27
replace fathbil = 4 if Vater_hBildung >= 27 & Vater_hBildung < 30
replace fathbil = 5 if Vater_hBildung >= 30 & Vater_hBildung < 40
replace fathbil = 99 if Vater_hBildung == .
label define VBIL 1 "No postsecondary education" 2 "Vocational training" 3
"Industrial/commercial/health care apprenticeship" 4 "Technical college, Civil
servant training" 5 "University" 99 "Missing"
label values fathbil VBIL
```

* Fathers secondary education

```
gen fathscool = Vater_Schule
replace fathscool = 99 if Vater_Schule == .
replace fathscool = 6 if Vater_Schule > 5 & Vater_Schule < 99
label values fathscool vsbiI_EN
```

* Fathers year of birth

```
gen fathgeb = 1 if gebjahr_Vater < 1940
replace fathgeb = 2 if gebjahr_Vater < 1940 + 10 & gebjahr_Vater >= 1940
replace fathgeb = 3 if gebjahr_Vater < 1940 + 20 & gebjahr_Vater >= 1940 + 10
replace fathgeb = 4 if gebjahr_Vater < 1940 + 30 & gebjahr_Vater >= 1940 + 20
replace fathgeb = 5 if gebjahr_Vater < 1940 + 40 & gebjahr_Vater >= 1940 + 30
label define fcat 1 "1929-1939" 2 "1940-1949" 3 "1950-1959" 4 "1960-1969" 5
"1970-1975"
label values fathgeb fcat
```

* Sons year of birth

```
gen songeb = 1 if gebjahr_Sohn < 1979
replace songeb = 2 if gebjahr_Sohn < 1979 + 2 & gebjahr_Sohn >= 1979
replace songeb = 3 if gebjahr_Sohn < 1979 + 4 & gebjahr_Sohn >= 1979 + 2
replace songeb = 4 if gebjahr_Sohn < 1979 + 6 & gebjahr_Sohn >= 1979 + 4
replace songeb = 5 if gebjahr_Sohn < 1979 + 8 & gebjahr_Sohn >= 1979 + 6
replace songeb = 6 if gebjahr_Sohn < 1979 + 10 & gebjahr_Sohn >= 1979 + 8
replace songeb = 7 if gebjahr_Sohn < 1979 + 12 & gebjahr_Sohn >= 1979 + 10
replace songeb = 8 if gebjahr_Sohn < 1979 + 14 & gebjahr_Sohn >= 1979 + 12
replace songeb = 9 if gebjahr_Sohn < 1979 + 16 & gebjahr_Sohn >= 1979 + 14
replace songeb = 10 if gebjahr_Sohn < 1979 + 18 & gebjahr_Sohn >= 1979 + 16
```

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```

label define scat 1 "1977-1978" 2 "1979-1980" 3 "1981-1982" 4 "1983-1984" 5
"1985-1986" 6 "1987-1988" 7 "1989-1990" 8 "1991-1992" 9 "1993-1994" 10 "1995"
label values songeb scat

* State Dummies
replace bula_Vater = bula_Sohn if bula_Vater == .
gen east = bula_Vater > 10
label var east "Father lived in East Germany at sons age 10"
gen state = bula_Vater

* Mi gback
replace mi gback_Vater = mi gback_Sohn if mi gback_Vater < 0 | mi gback_Vater == 4
label values mi gback_Vater mi gback_EN

foreach var in songeb fathgeb fathschoo1 fathbil si bs birtho mi gback_Vater state
sonbil nace_Sohn {
qui tab `var', gen(`var'_) m
}
rename ANZ_1_Vater_before ALbef_fath
rename ANZ_1_Vater_after ALaft_fath
rename ANZ_2_Sohn AL_son

global varlabel ///
fathbil_1 "No postsecondary education" ///
fathbil_2 "Other vocational training" ///
fathbil_3 "Industrial/commercial/health care apprenticeship" ///
fathbil_4 "Technical college, civil servant training" ///
fathbil_5 "University degree" ///
fathbil_6 "Missing information" ///
fathgeb_1 "1929-1939" ///
fathgeb_2 "1940-1949" ///
fathgeb_3 "1950-1959" ///
fathgeb_4 "1960-1969" ///
fathgeb_5 "1970-1975" ///
songeb_1 "1977-1978" ///
songeb_2 "1979-1980" ///
songeb_3 "1981-1982" ///
songeb_4 "1983-1984" ///
songeb_5 "1985-1986" ///
songeb_6 "1987-1988" ///
songeb_7 "1989-1990" ///
songeb_8 "1991-1992" ///
songeb_9 "1993-1994" ///
songeb_10 "1995" ///
fathschoo1_1 "Lower secondary school degree (Hauptschulabschluss)" ///
fathschoo1_2 "Intermediate school degree (Mittlere Reife)" ///
fathschoo1_3 "Technical school degree (Fachhochschulreife)" ///
fathschoo1_4 "Upper secondary school degree (Abitur)" ///
fathschoo1_5 "Other degree" ///
fathschoo1_6 "No school degree" ///
fathschoo1_7 "Missing information" ///
sonbil_1 "Lower secondary school degree (Hauptschulabschluss)" ///
sonbil_2 "Intermediate school degree (Mittlere Reife)" ///
sonbil_3 "Upper secondary school degree (Abitur)" ///
sonbil_4 "Other degree / No school degree / Missing information" ///
sonbil_5 "Currently in school" ///
birtho_1 "1st born" ///
birtho_2 "2nd born" ///
birtho_3 "3rd born" ///
birtho_4 "4th born" ///
birtho_5 "Missing information" ///
si bs_1 "No siblings" ///
si bs_2 "1 sibling" ///
si bs_3 "2 siblings" ///
si bs_4 "3 siblings" ///
si bs_5 ">4 siblings" ///
mi gback_Vater_1 "No migration background" ///

```

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```

mi gback_Vater_2 "Direct migration background" ///
mi gback_Vater_3 "Indirect migration background" ///
Miss_Sohn "Number of years son not observed age 17-24" ///
Miss_Vater_before "Number of years father not observed (son aged 10-15)" ///
east "Father lived in East Germany at sons' age 10" ///
ALbef_fath "Years father unemployed while son aged 10-15" ///
ALaft_fath "Years father unemployed while son aged 25-30" ///
AL_son "Number of years son workless" ///
gebjahr_Sohn "Sons' year of birth" ///
birthorder_Sohn "Sons' birthorder" ///
Geschwister_Sohn "Sons' number of siblings" ///
gebjahr_Vater "Fathers' year of birth"

```

```

label variable gebjahr_Vater "Fathers' year of birth"
label variable gebjahr_Sohn "Sons' year of birth"
label variable birthorder_Sohn "Sons' birthorder"
label variable Geschwister_Sohn "Sons' number of siblings"
label variable mi gback_Vater "Fathers' migration background"

```

```

drop MAX_School * Vater_AL_2 ANZ_2_Vater_before ANZ_2_Vater_after persnr_Sohn
ind1dic ind2dic ind_pgen jahr_indf_pgen emplst_Sohn lfs_Sohn college_Sohn ///
ind_equiv jahr_indf_pequiv hhnrakt_Sohn AL_1_Sohn ANZ_1_Sohn Vater_Schule
Vater_Beruf alter_Sohn bul_a_Sohn mi gback_Sohn bul_a_Vater

```

save panel.dta , replace

```

*****
*****
// Generate cross-section data set (final sample)
*****
*****

```

```

sort persnr jahr
duplicates drop persnr , force

```

```

drop school School MAX
replace AL1_pgen = AL1_pequiv if AL1_pgen==. & AL1_pequiv!=.
drop AL1_pe AL5_pe

```

save final sample.dta , replace

```

*****
*****
// Alternative data set for robustness test (son aged 10-13)
*****
*****

```

```

cd "$wdi rD"
use Vaterarbeitlosigkeits_Sohn_10_13, clear

```

```

gen persnr=persnr_Sohn
sort persnr
merge 1:1 persnr using Vaterbildung.dta
keep if _merge == 3
drop _merge
sort persnr
merge 1:1 persnr using BulAVater_Sohn10.dta
drop if _merge == 2
drop _merge

```

```

sort persnr
merge 1:1 persnr using Vaterarbeitlosigkeits_Sohn_after.dta
drop if _merge ==2
drop _merge

```

```

replace persnr=nr_vater
sort persnr
merge m:1 persnr using Vatercharakteristika.dta

```

```

drop if _merge == 2
drop _merge

gen jahr = gebjahr_Sohn
sort persnr jahr
merge m:1 persnr jahr using Initial_Industry_1DIC.dta
drop if _merge == 2
drop _merge

sort persnr jahr
merge m:1 persnr jahr using Initial_Industry_2DIC.dta
drop if _merge == 2
drop _merge

drop jahr
renvars bul a\ bul a_Vater
gen jahr = gebjahr_Sohn + 8

sort persnr jahr
merge m:1 persnr jahr using ALri si ko_pgen
drop if _merge == 2
drop _merge

sort persnr jahr
merge m:1 persnr jahr using ALri si ko_pequi v
drop if _merge == 2
drop _merge

drop jahr
replace persnr=persnr_Sohn

sort persnr
merge m:m persnr using Sohni nfo.dta
keep if _merge == 3
drop _merge
qui tab school, m gen(D_School_)

forval i=1/8{
bysort persnr_Sohn: egen MAX_School_`i' =max(D_School_`i')
drop D_School_`i'
}
gen SchoolMAX =.
replace SchoolMAX = 4 if MAX_School_4 == 1 & school !=.
replace SchoolMAX = 3 if MAX_School_3 == 1 & MAX_School_4 != 1 & school !=.
replace SchoolMAX = 2 if MAX_School_2 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & school !=.
replace SchoolMAX = 1 if MAX_School_1 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & school !=.
replace SchoolMAX = 5 if MAX_School_5 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & MAX_School_1 !=1 & school !=.
replace SchoolMAX = 7 if MAX_School_7 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & MAX_School_1 !=1 & MAX_School_5 !=1 & school !=.
replace SchoolMAX = 6 if MAX_School_6 == 1 & MAX_School_4 != 1 & MAX_School_3 !=
1 & MAX_School_2 != 1 & MAX_School_1 !=1 & MAX_School_5 !=1 & MAX_School_7 !=1 &
school !=.

label values SchoolMAX apsbi l_EN
sort persnr_Sohn jahr
duplicates drop persnr_Sohn, force

drop school
rename SchoolMAX school_Sohn
replace AL1_pgen = AL1_pequi v if AL1_pgen==. & AL1_pequi v!=.

* Education son
gen sonbil = school_Sohn
recode sonbil (4 = 3) (5 6 . = 4) (7=5), copyrest
label define SBIL 1 "Lower secondary school degree (Hauptschul abschl uss)" 2

```

```
"Intermediate school degree (Mittlere Reife)" ///
3 "Upper secondary school degree (Abitur)/Technical
secondary school degree (Fachhochschule)" 4 "Other degree / No school degree /
Missing information" 5 "Currently in school"
label values sonbil SBIL
```

* Siblings

```
gen sibs = Geschwister_Sohn
replace sibs = 4 if sibs > 4
```

* Birth order

```
gen birtho = birthorder_Sohn
replace birtho = 4 if birthorder_Sohn > 3 & birthorder_Sohn != .
replace birtho = 99 if birthorder_Sohn == .
```

* Fathers postsecondary education

```
gen fathbil = 1 if Vater_hBildung == 10 | Vater_hBildung >= 50
replace fathbil = 2 if Vater_hBildung >= 20 & Vater_hBildung < 24
replace fathbil = 2 if Vater_hBildung == 40
replace fathbil = 3 if Vater_hBildung >= 24 & Vater_hBildung < 27
replace fathbil = 4 if Vater_hBildung >= 27 & Vater_hBildung < 30
replace fathbil = 5 if Vater_hBildung >= 30 & Vater_hBildung < 40
replace fathbil = 99 if Vater_hBildung == .
label define VBIL 1 "No postsecondary education" 2 "Vocational training" 3
"Industrial/commercial/health care apprenticeship" 4 "Technical college, Civil
servant training" 5 "University" 99 "Missing"
label values fathbil VBIL
```

* Fathers secondary education

```
gen fathschool = Vater_Schule
replace fathschool = 99 if Vater_Schule == .
replace fathschool = 6 if Vater_Schule > 5 & Vater_Schule < 99
label values fathschool vsbil_EN
```

* Fathers year of birth

```
gen fathgeb = 1 if gebjahr_Vater < 1940
replace fathgeb = 2 if gebjahr_Vater < 1940 + 10 & gebjahr_Vater >= 1940
replace fathgeb = 3 if gebjahr_Vater < 1940 + 20 & gebjahr_Vater >= 1940 + 10
replace fathgeb = 4 if gebjahr_Vater < 1940 + 30 & gebjahr_Vater >= 1940 + 20
replace fathgeb = 5 if gebjahr_Vater < 1940 + 40 & gebjahr_Vater >= 1940 + 30
label define fcat 1 "1929-1939" 2 "1940-1949" 3 "1950-1959" 4 "1960-1969" 5
"1970-1975"
label values fathgeb fcat
```

* Sons year of birth

```
gen songeb = 1 if gebjahr_Sohn < 1979
replace songeb = 2 if gebjahr_Sohn < 1979 + 2 & gebjahr_Sohn >= 1979
replace songeb = 3 if gebjahr_Sohn < 1979 + 4 & gebjahr_Sohn >= 1979 + 2
replace songeb = 4 if gebjahr_Sohn < 1979 + 6 & gebjahr_Sohn >= 1979 + 4
replace songeb = 5 if gebjahr_Sohn < 1979 + 8 & gebjahr_Sohn >= 1979 + 6
replace songeb = 6 if gebjahr_Sohn < 1979 + 10 & gebjahr_Sohn >= 1979 + 8
replace songeb = 7 if gebjahr_Sohn < 1979 + 12 & gebjahr_Sohn >= 1979 + 10
replace songeb = 8 if gebjahr_Sohn < 1979 + 14 & gebjahr_Sohn >= 1979 + 12
replace songeb = 9 if gebjahr_Sohn < 1979 + 16 & gebjahr_Sohn >= 1979 + 14
replace songeb = 10 if gebjahr_Sohn < 1979 + 18 & gebjahr_Sohn >= 1979 + 16
```

```
label define scat 1 "1977-1978" 2 "1979-1980" 3 "1981-1982" 4 "1983-1984" 5
"1985-1986" 6 "1987-1988" 7 "1989-1990" 8 "1991-1992" 9 "1993-1994" 10 "1995"
label values songeb scat
```

* State Dummies

```
replace bula_Vater = bula_Sohn if bula_Vater == .
gen east = bula_Vater > 10
label var east "Father lived in East Germany at sons age 10"
gen state = bula_Vater
```

* Migrate

```
replace migback_Vater = migback_Sohn if migback_Vater < 0 | migback_Vater == 4
```

```
label values mi gback_Vater mi gback_EN
```

```
foreach var in songeb fathgeb fathschooll fathbil sibs birtho mi gback_Vater state
sonbil nace_Sohn {
qui tab `var', gen(`var'_) m
}
```

```
rename ANZ_1_Vater_before ALbef_fath
rename ANZ_1_Vater_after ALaft_fath
rename ANZ_2_Sohn AL_son
```

```
global varlabel ///
fathbil_1 "No postsecondary education" ///
fathbil_2 "Other vocational training" ///
fathbil_3 "Industrial/commercial/health care apprenticeship" ///
fathbil_4 "Technical college, civil servant training" ///
fathbil_5 "University degree" ///
fathbil_6 "Missing information" ///
fathgeb_1 "1929-1939" ///
fathgeb_2 "1940-1949" ///
fathgeb_3 "1950-1959" ///
fathgeb_4 "1960-1969" ///
fathgeb_5 "1970-1975" ///
songeb_1 "1977-1978" ///
songeb_2 "1979-1980" ///
songeb_3 "1981-1982" ///
songeb_4 "1983-1984" ///
songeb_5 "1985-1986" ///
songeb_6 "1987-1988" ///
songeb_7 "1989-1990" ///
songeb_8 "1991-1992" ///
songeb_9 "1993-1994" ///
songeb_10 "1995" ///
fathschooll_1 "Lower secondary school degree (Hauptschulabschluss)" ///
fathschooll_2 "Intermediate school degree (Mittlere Reife)" ///
fathschooll_3 "Technical school degree (Fachhochschulreife)" ///
fathschooll_4 "Upper secondary school degree (Abitur)" ///
fathschooll_5 "Other degree" ///
fathschooll_6 "No school degree" ///
fathschooll_7 "Missing information" ///
sonbil_1 "Lower secondary school degree (Hauptschulabschluss)" ///
sonbil_2 "Intermediate school degree (Mittlere Reife)" ///
sonbil_3 "Upper secondary school degree (Abitur)" ///
sonbil_4 "Other degree / No school degree / Missing information" ///
sonbil_5 "Currently in school" ///
birtho_1 "1st born" ///
birtho_2 "2nd born" ///
birtho_3 "3rd born" ///
birtho_4 "4th born" ///
birtho_5 "Missing information" ///
sibs_1 "No siblings" ///
sibs_2 "1 sibling" ///
sibs_3 "2 siblings" ///
sibs_4 "3 siblings" ///
sibs_5 ">4 siblings" ///
mi gback_Vater_1 "No migration background" ///
mi gback_Vater_2 "Direct migration background" ///
mi gback_Vater_3 "Indirect migration background" ///
Miss_Sohn "Number of years son not observed age 17-24" ///
Miss_Vater_before "Number of years father not observed (son aged 10-15)" ///
east "Father lived in East Germany at sons' age 10" ///
ALbef_fath "Years father unemployed while son aged 10-15" ///
ALaft_fath "Years father unemployed while son aged 25-30" ///
AL_son "Number of years son workless" ///
gebjahr_Sohn "Sons' year of birth" ///
birthorder_Sohn "Sons' birthorder" ///
Geschwister_Sohn "Sons' number of siblings" ///
gebjahr_Vater "Fathers' year of birth"
```

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```
label variable gebjahr_Vater "Fathers' year of birth"
label variable gebjahr_Sohn "Sons' year of birth"
label variable birthorder_Sohn "Sons' birthorder"
label variable Geschwister_Sohn "Sons' number of siblings"
label variable mi_gback_Vater "Fathers' migration background"

drop MAX_School * Vater_AL_2 ANZ_2_Vater_before ANZ_2_Vater_after persnr_Sohn
ind1dic ind2dic ind_pgen jahr_indf_pgen emplst_Sohn lfs_Sohn college_Sohn ///
ind_equiv jahr_indf_pequiv hhnrakt_Sohn AL_1_Sohn ANZ_1_Sohn Vater_Schule
Vater_Beruf alter_Sohn bul_a_Sohn mi_gback_Sohn bul_a_Vater
```

```
keep if AL1_pgen !=.
save sons_10_13.dta, replace
```


// Erase unnecessary data


```
cd "$wdi rD"
erase ALrisiko_pequiv.dta
erase ALrisiko_pgen.dta
erase Arbeitslosigkei.t.dta
erase BIOPAREN-Variablen_Mutter.dta
erase BIOPAREN-Variablen_Vater.dta
erase Bul_a_HH.dta
erase Bul_aVater_Sohn10.dta
erase Geschwister.dta
erase HBRUTTO-Variablen.dta
erase Initial_industry_1DIC.dta
erase Initial_industry_2DIC.dta
erase Kindcharakteristika_Sohn.dta
erase Mutterbildung.dta
erase Muttercharakteristika.dta
erase PEQUIV-Variablen.dta
erase PGEN-Variablen.dta
erase Reihenfolge_Geschwister.dta
erase risiko_1DIC.dta
erase risiko_2DIC.dta
erase Sohni nfo.dta
erase Vater_Sohn_Kombinationen.dta
erase Vater_Sohn1.dta
erase Vater_Sohn2.dta
erase Vater_Sohn3.dta
erase Vater_Sohn4.dta
erase Vater_Sohn5.dta
erase Vater_Sohn6.dta
erase Vater_Sohn7.dta
erase Vaterarbeitslosigkei t_Sohn.dta
erase Vaterarbeitslosigkei t_Sohn_10_13.dta
erase Vaterarbeitslosigkei t_Sohn_after.dta
erase Vaterbildung.dta
erase Vatercharakteristika.dta
```


// Global s


```
global var0 Mi ss_Sohn Mi ss_Vater_before
global var1 songeb_* fathgeb_* fathschoo l_* fathbi l_* si bs_* bi rtho_*
global var2 mi_gback_Vater_*
global var3 state_*

global var0het Mi ss_Sohn Mi ss_Vater_before
global var1het i b1.songeb i b1.fathgeb i b1.fathschoo l i b1.fathbi l i b1.si bs
```

```

i b1. birtho
global var2het i b1. mi gback_Vater
global var3het i b1. state

global se cluster(nr_vater)

global descr AL_son ALbef_fath Mi ss_Sohn Mi ss_Vater_before ///
gebj ahr_Sohn sonbi l_* Geschwi ster_Sohn bi rthorder_Sohn
mi gback_Vater_* ///
gebj ahr_Vater east fathschoo l_* fathbi l_*

*****
*****
// Descriptives
*****
*****

cd "$wdi rD"
use final sample, clear
keep if AL1_pgen !=.

count if Vater_AL_1 ==0
count if Vater_AL_1 ==1
count

tabstat $descr , by(Vater_AL_1) stats( mean) save c(s)
tabstat $descr , by(Vater_AL_1) stats( sd) save c(s)
tabstat $descr , stats( mean) save c(s)
tabstat $descr , stats( sd) save c(s)

*****
*****
// OLS and IV
*****
*****

cd "$wdi rD"
use final sample, clear
keep if AL1_pgen !=.

foreach ins in AL1_pgen AL5_pgen {
    ivreg2 AL_son (ALbef_fath = `ins' ) ///
        , $se first savefirst

    estimates restore _ivreg2_ALbef_fath
    test `ins'

    ivreg2 AL_son $var0 $var1 $var2 $var3 (ALbef_fath = `ins' ) ///
        , $se first savefirst
    estimates restore _ivreg2_ALbef_fath
    test `ins'
}

reg AL_son ALbef_fath , $se
reg AL_son ALbef_fath $var0 $var1 mi gback_Vater_2 mi gback_Vater_3 $var3 ,
$se

```

```

*****
*****
// Gottschalk method
*****
*****

*Panel A
cd "$wdird"
use final sample, clear

keep if Count_Vater_after !=.

    reg AL_son ALbef_fath ALaft_fath , $se
        nlcom _b[ALbef_fath]-_b[ALaft_fath], post

    reg AL_son ALbef_fath ALaft_fath Miss_Vater_after $var0 $var1 $var2 $var3
    , $se
        nlcom _b[ALbef_fath]-_b[ALaft_fath], post

gen Vater_before = ALbef_fath
reg AL_son Vater_before if ALaft_fath!=. , $se
reg AL_son Vater_before $var0 $var1 $var2 $var3 if ALaft_fath!=. , $se

*Panel B
cd "$wdird"
use final sample, clear

keep if Count_Vater_after >=3 & Count_Vater_after !=. & Count_Vater_before >= 3

    reg AL_son ALbef_fath ALaft_fath , $se
        nlcom _b[ALbef_fath]-_b[ALaft_fath], post

    reg AL_son ALbef_fath ALaft_fath Miss_Vater_after $var0 $var1 $var2 $var3
    , $se
        nlcom _b[ALbef_fath]-_b[ALaft_fath], post

gen Vater_before = ALbef_fath
reg AL_son Vater_before if ALaft_fath!=. , $se
reg AL_son Vater_before $var0 $var1 $var2 $var3 if ALaft_fath!=. , $se

*****
*****
// Heterogeneities
*****
*****

cd "$wdird"
use final sample, clear
keep if AL1_pgen !=.

gen west = 1-east

```

```

gen nomig=mi gback_Vater==1
gen mi g=1-nomig
gen ledu = Vater_hBildung < = 10
replace ledu = 1 if Vater_hBildung>=40 & Vater_hBildung !=.
gen medu = (Vater_hBildung > = 20 & Vater_hBildung < = 26)
gen hedu = (Vater_hBildung > = 27 & Vater_hBildung < = 32)
replace ledu =. if Vater_hBildung ==.
replace medu =. if Vater_hBildung ==.
replace hedu =. if Vater_hBildung ==.

```

```

foreach region in east west {
  reg AL_son ALbef_fath $var0het $var1het $var2het if `region'==1, $se
  reg AL_son ALbef_fath $var0het $var1het if nomig==1 & `region'==1, $se
  reg AL_son ALbef_fath $var0het $var1het if mi g==1 & `region'==1, $se
  reg AL_son ALbef_fath $var0het $var1het $var2het if ledu==1 &
`region'==1, $se
  reg AL_son ALbef_fath $var0het $var1het $var2het if medu==1 &
`region'==1, $se
  reg AL_son ALbef_fath $var0het $var1het $var2het if hedu==1 &
`region'==1, $se
}

```

```

reg AL_son ALbef_fath $var0het $var1het $var2het $var3het , $se
reg AL_son ALbef_fath $var0het $var1het if nomig==1, $se
reg AL_son ALbef_fath $var0het $var1het if mi g==1, $se
reg AL_son ALbef_fath $var0het $var1het $var2het if ledu==1, $se
reg AL_son ALbef_fath $var0het $var1het $var2het if medu==1, $se
reg AL_son ALbef_fath $var0het $var1het $var2het if hedu==1, $se

```

```

*****
*****
// Transmission mechanisms
*****
*****

```

```

cd "$wdi rD"
use final sample, clear
keep if AL1_pgen !=.

```

```

global t1 songeb_* state_* Mi ss_Sohn Mi ss_Vater_before
global t2 fathgeb_* fathschool_* fathbil_*
global t3 si bs_* bi rtho_* mi gback_Vater_*
global t4 sonbil_* nace_Sohn_*

```

```

*Panel A
reg AL_son ALbef_fath $t1 , $se

```

```

testparm ${t1}

```

```

reg AL_son ALbef_fath $t1 $t2, $se
forvalues t=1/2 {
  testparm ${t`t'}`
}

```

```

reg AL_son ALbef_fath $t1 $t2 $t3, $se
forvalues t=1/3 {
  testparm ${t`t'}`
}

```

```

reg AL_son ALbef_fath $t1 $t2 $t3 $t4, $se
forvalues t=1/4 {
  testparm ${t`t'}`
}

```

```

*Panel B
reg AL_son ALbef_fath $t1 , $se
testparm ${t1}

reg AL_son ALbef_fath $t1 $t2, $se
forvalues t=1/2 {
testparm ${t`'}`}
}

reg AL_son ALbef_fath $t1 $t3, $se
foreach t in 1 3 {
testparm ${t`'}`}
}

reg AL_son ALbef_fath $t1 $t4, $se
foreach t in 1 4 {
testparm ${t`'}`}
}

*****
*****
// Robustness tests
*****
*****

*Panel A
cd "$wdird"
use panel.dta , clear

drop school
rename SchoolMAX school_Sohn
replace AL1_pgen = AL1_pequiv if AL1_pgen==. & AL1_pequiv!=.
keep if AL1_pgen !=.

foreach ins in AL1_pgen AL5_pgen {
    ivreg2 AL_2_Sohn (ALbef_fath =`ins' ) ///
        , $se first savefirst
    estimates restore _ivreg2_ALbef_fath
    qui test `ins'

    ivreg2 AL_2_Sohn $var0 $var1 $var2 $var3 (ALbef_fath =`ins' ) ///
        , $se first savefirst

    estimates restore _ivreg2_ALbef_fath
    qui test `ins'
}

reg AL_2_Sohn ALbef_fath , $se
reg AL_2_Sohn ALbef_fath $var0 $var1 $var2 $var3 , $se

```

```

*Panel B
cd "$wdird"
use finalsample, clear
keep if AL1_pgen !=.

foreach ins in AL1_pgen AL5_pgen {
  ivreg2 AL_2_Sohn ( Vater_AL_1 =`ins' ) ///
    , $se first savefirst
  estimates restore _ivreg2_Vater_AL_1
  qui test `ins'

  ivreg2 AL_2_Sohn $var0 $var1 $var2 $var3 (Vater_AL_1 =`ins' ) ///
    , $se first savefirst
  estimates restore _ivreg2_Vater_AL_1
  qui test `ins'
}

reg AL_2_Sohn Vater_AL_1 , $se
reg AL_2_Sohn Vater_AL_1 $var0 $var1 $var2 $var3 , $se

*Panel C
cd "$wdird"
use sons_10_13.dta, clear

foreach ins in AL1_pgen AL5_pgen {
  ivreg2 AL_son (ALbef_fath =`ins' ) ///
    , $se first savefirst

  estimates restore _ivreg2_ALbef_fath
  qui test `ins'

  ivreg2 AL_son $var0 $var1 $var2 $var3 (ALbef_fath =`ins' ) ///
    , $se first savefirst
  estimates restore _ivreg2_ALbef_fath
  qui test `ins'
}

reg AL_son ALbef_fath , $se

reg AL_son ALbef_fath $var0 $var1 mi gback_Vater_2 mi gback_Vater_3 $var3 ,
  $se

```