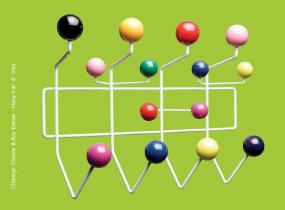




### Scarring

Effects of early-career unemployment

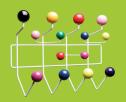


Vicky Heylen Joost Bollens

#### Overview



- Observations
- Theoretical background
- Research questions
- Data, variables, methodology
- Main results
- Summary



Main results Summary

Youth unemployment is generally much higher than adult unemployment

#### youth/adult unemployment rate ratio



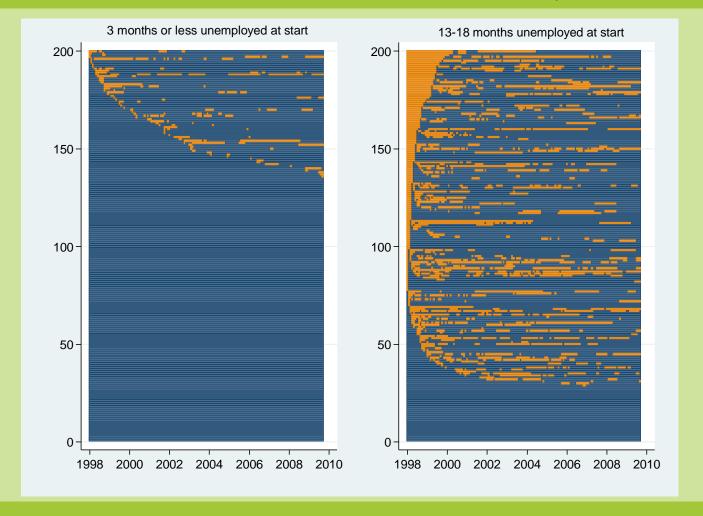


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#### Unemployment persistence

#### Theoretical background Research questions

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# Causes of unemployment persistence

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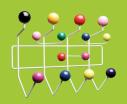


#### Unfavourable personal characteristics:

- certain individuals are more prone to unemployment due to their characteristics (e.g. low education, ...)
- problem: it is often not possible to observe all relevant characteristics (unobserved heterogeneity)

#### Scarring / state dependence:

- the mere experience of unemployment will have a genuine behavioural effect on the individual
- this effect can be twofold

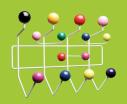


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- Human capital: when out-of-work individuals will not be able to accumulate human capital
- Social capital: unemployment could prevent the development of social networks
- Changing preferences or constraints

- Signaling: unemployment may convey a signal of low productivity
- Segmented labour market: unemployment may lower the reservation wage, make people accept poorer quality jobs
- Dismissal rules / practice



# Unemployment causes employment

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- Human capital: the time out-of-work could be used to invest in education or training
- Job search:
   better match between job and job-seeker
- Scaring: negative unemployment experience will motivate individuals to find and keep a job



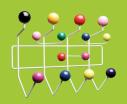


- US studies (Heckman & Borjas 1980, Ellwood 1982, Corcoran & Hill 1985)
   little evidence of genuine state dependence
- EU studies (Naredranathan & Elias 1993, Arulampalam et al. 2000, Gregg 2001, Burgess et al. 2003, Flaig et al. 1993, Clark et al. 1999, Hämäläinen 2003, Nordström Skans 2004, Steijn et al. 2006, Luijkx & Wolbers, D'Addio et al. 2002, Gangji & Plasman 2009, Cockx & Picchio 2009) evidence for negative state dependence some studies emphasize heterogeneity in scarring



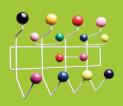


- 1. Does early-career unemployment affect the subsequent unemployment propensity?
- 2. Are these effects persistent or temporary?
- 3. Are certain individuals affected more than others by early-career unemployment?
- 4. Does the effect of early-career unemployment depend on the business cycle at the time of graduation?





- VDAB-data: info on job-seekers from 1995-2009
- School-leavers have incentive to register as soon as they graduate
- Sample definition
  - Registered for the first time as school-leaver between June 1996 and October 1996;
  - between 18 and 25;
  - 41 819 individuals.



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#### Dependent variable:

cumulative duration in unemployment from 1998 onwards almost half of the individuals is never registered as unemployed job-seeker with VDAB after 1998

#### Independent variables:

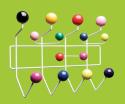
- Early unemployment cumulative duration in unemployment during first 18 months
- Background characteristics measured at initial registration age, gender, nationality/descent, educational attainment, province of residence, functional urbanization of the city of residence, mobility
- Month of registration



16-12.2010



- To account for large proportion of zero observations
- Persistent vs temporary scars measured by estimating models with different time horizons
- Heterogeneity in scarring measured by including interaction terms



## Estimated proportion of cumulative unemployment duration (01.1998-09.2009): reference person<sup>1</sup>

- Scarring:
  - 3 months or less unemployed: 6.6% or 9 months
  - 4 to 6 months unemployed: 10.6% or 15 months
  - 7 to 12 months unemployed: 15.1% or 21 months
  - 13 to 18 months unemployed: 25.0% or 35 months
- Relevant background characteristics
  - gender: man -3.2%
  - descent: Turkish/Moroccan +12.1%, other non-European +5.1%
  - education: Voc.Sec. -7.1%, Tech.Sec. -10.5%, Higher prof. -16.5%, Academic -17.6%
  - mobility: driving licence -2.4%, car -1.9%
- Moment of registration
  - month: August +1.6%, September +1.9%, October +4.3%

16-12-2010

<sup>1</sup> Reference person: woman, Belgian descent, max. 1<sup>st</sup> stage of secondary education, residency in Vlaams Brabant, city with weak functional urbanization, no limited working ability, no driving licence, no car and registration in June.



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Estimated proportion of cumulative unemployment duration for different time periods: reference person<sup>1</sup>

<ul> <li>Scarring</li> </ul>	01.1998-12.2002	01.2003-09.2009
------------------------------	-----------------	-----------------

• 3 months or less unemployed:	4.1%	0%
• 4 to 6 months unemployed:	10.1%	0%

• 7 to12 months unemployed: 17.2% 0%

• 13 to 18 months unemployed: 33.4% 12.4%

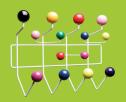
 Relevant background characteristics & moment of registration no differences between the two time periods

<sup>&</sup>lt;sup>1</sup> Reference person: woman, Belgian descent, max. 1<sup>st</sup> stage of secondary education, residency in Vlaams Brabant, city with weak functional urbanization, no limited working ability, no driving licence, no car and registration in June.



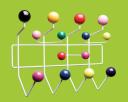


- Gender x early unemployment
   no significant effect, men and women are affected in the same
   way by early unemployment
- Descent x early unemployment
   for people from non-European descent early unemployment
   has larger negative career consequences in terms of
   cumulative later unemployment duration
- Education x early unemployment for people with a degree of secondary education or higher the negative effect of early unemployment is diminished



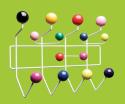


- 1. Unemployment causes unemployment.
- 2. This negative relationship is primarily driven by the first 6 years, but for long early career unemployment spells the effect even persists beyond this point.
- 3. The effects are the same for men and women, but seem to be stronger for people of non-European descent and people who do not have a secondary education degree.
- 4. To be studied





- Scope for intervention to lower the equilibrium unemployment rate in the long-term.
- No simple general solution to youth unemployment.
- Need for decisive actions on multiple fronts:
  - Prevent early drop-out;
  - Provide sufficient information and job search skills to school-leavers entering the labour market;
  - Provide access to ALMP for school-leavers at risk of becoming long-term unemployed.



#### Contact details



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