Why not stay home? Nest-leaving behavior in Western Europe*

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Summary.

Nest-leaving describes the process of young adults leaving their parental home, a process in the course of which they continuously acquire independence, predominantly in terms of financial and residential autonomy. Nest-leaving is accompanied by transitions in various aspects of life, often coinciding with singular lifecycle events, such as commencement or completion of studies, integration in the labor market, and formation of a family. Over the last two decades, the average age at leaving home has increased in most Western countries. Besides this common recent trend there exist pronounced north-south differences within Europe, as the fraction of young adults living with their parents is substantially larger in southern Europe than in central or northern Europe.

This paper investigates these intra-European differences – in the current version exemplified by the Netherlands and Denmark for Northern Europe, and Spain and Italy for Southern Europe. We describe the patterns of nest-leaving, discuss the determinants of living at home, and assess the effects of the child leaving home on parental health and happiness. To this end, we utilize an unusually rich data source, waves 1 through 5 (1994-1998) of the European Community Household Panel. While previous research has focused on the determinants of nest-leaving only, we investigate the effects that the moving of the child has on their fathers and mothers. Our outcome variables capture general health and mental health, as well as satisfaction with the financial and housing situation, for both parents. We assess the effects of the "treatment", i.e. the child moving out, by matching "treated" households to a comparison group of "identical" households in which the child remains at home. Identicalness is expressed through a set of covariates characterizing the parents (age, education, employment status, among others), the child (age at moving out, sex), and the household (income, size, living standards).

With respect to the patterns of nest-leaving our analysis finds that the proportion of young adults staying at home is consistently higher for Southern Europe than for Northern Europe, and that the fraction of women living at home is lower than that of men for all age groups in all countries. Marriage appears to be the single factor most strongly associated with leaving the parental home across Europe. In the Netherlands, high education shows a strong negative correlation with living at home. Whereas employment status does not seem to be influential in the decision to leave home in Northern Europe, in both Italy and Spain being unemployed is positively associated with staying home.

Regarding trends in the outcome variables of interest, both general and mental health do not show any consistent patterns across countries. We also do not find significant treatment effects on health, with the exception of Italy, where the results indicate that mothers suffer mentally when their son moves out. The patterns of financial satisfaction show an upward trend in the Netherlands, in Denmark and in Spain, whereas only in Italy the degree of financial satisfaction decreases after the child leaves. Treatment effect estimates confirm this result, which may be due to a strong decline in total household income down to levels below those before the child moved out. Parental satisfaction with the housing situation is generally increasing after the child has left. Interestingly, the degree of happiness displays pronounced 'dips' right before the child moves in all countries, except Spain. Treatment effect estimates underscore the positive effect of nest-leaving on parents' housing satisfaction.

Structure

- 1. Motivation and Background
- 2. Data
- 3. Patterns of Nest-leaving
- 4. Effects of Nest-leaving

1. Motivation and Background

Stylized facts:

- Over last two decades, average age at leaving home has increased in most Western countries
- Age at first marriage, age at first birth
- There exist pronounced north-south differences within Europe
- Not much known about reasons for and consequences of these patterns

Why should we care?

- Reflects important demographic developments
- Causes + effects why kids stay at home, or move out, important
 - In particular, because literature argues:
 - Family acts as "safety net" (but for whom?)
 - Local labor demand drives nest-leaving patterns
 - Southern European parents might "bribe" children

This study:

- Investigate intra-European differences using data from the European Community Household Panel ECHP
- Currently: Denmark, Netherlands, Spain, Italy
- Previous research: Determinants of Nest-leaving
 (e.g. model simultaneous decision of work, living arrangement, studying)
- Consider determinants
- Describe patterns
- Assess effects of Nest-leaving (captured by parental health and happiness)

1a. Sociological perspectives on nest-leaving

- <u>Nest-leaving</u> (NL) describes process of young adults leaving the parental home, a process in the course of which they continuously acquire independence, predominantly in terms of financial and residential autonomy
- Expected normal step in relationship between parents (P) & youth (Y)
- NL usually accompanied by transitions in various aspects of life, often coinciding with singular lifecycle events, e.g. commencement/completion of studies, integration in labor market, formation of family
- Since NL process requires neither occurrence of all events simultaneously nor any one in particular, patterns of NL potentially diverse across and within countries, depending on economic, family, cultural situation
- Well-recognized factors in soc.lit.: Importance of public goods nature of HH
 consumption making it cheaper for Y to cohabit w/ P; P's ability/ willingness to
 provide financial/other subsidies for Y's continuing in school or marrying
- ⇒ Goldscheider and DaVanzo (1985)

1b. Economic perspectives on household formation

McElroy (1985)

- Model of family behavior to examine joint determination of <u>market work</u> + <u>family status</u> for young men in the US
- ⇒ Family provides nonemployment insurance, i.e. P insure Y a minimal level of utility when he faces poor market opportunities

Rosenzweig and Wolpin (1993)

- Dynamic overlapping generations model: Choices by P of <u>coresidence</u> and <u>transfer provision</u>, and <u>HC investment</u> decision of Y
- ⇒ interhousehold transfers play important role ⇒ Y more likely to receive P transfer when residing apart, and to coreside when earnings are low
- \Rightarrow P appear to subsidize all forms of HC investment

Martínez-Granado and Juiz-Castillo (2002)

- Extension of McElroy: Model for joint decisions of <u>working</u>, <u>leaving the</u> parental HH *and* studying by young people in Spain
- → Rich pattern of interdependencies between 3 decisions, both individual characteristics/economic variables significant explanatory role
- (1) P help Y through coresidence when Y have no job or are studying (2) living independently has + effect on prop. to work (3) housing conditions significantly affect living arrangements of Y (4) unemployment ⇒ neg. effect on prop. to work and study ⇒ + effect on living at home

Ermisch and DiSalvo (1997), Ermisch (1999) ⇒ housing prices

Card and Lemieux (2000)

- Responses of Y to external labor market forces in US/Canada over past 25 yrs. Key hypothesis: Y adjust to changes in labor market opportunities through changes in living arrangements, school enrollment & work effort
- → Depressed local labor market conditions ⇒ Y adapt by staying w/ P and by attending school ⇒ Empirical obs. that family acts as "safety net"

Manacorda and Moretti (2001)

- Det. of living arrangements of young Italian men (18-35 yrs): 2/3 live w/ P
- Model: cohabitation "good" for P and "bad" for Y: increase in P income ⇒ higher transfer to cohabiting Y ⇒ raises number of Y willing to live home
- (1) P's income key det. of Y's propensity to live home: 1 million liras (~US\$ 500) increase \$\Rightarrow\$ 1.4 percentage points increase in proportion of Y living at home (2) Favorable labor market conditions reduce prob of living w/ P

2. The ECHP Data

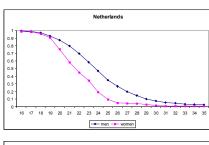
- Waves 1-5 (1994-98) of the European Household Panel Survey ECHP
- Longitudinal database, started w/ sample of 60,500 representative HHs in 1994 from then 12 member states of EU: Germany, Denmark, Netherlands, Belgium, Luxembourg, France, UK, Ireland, Italy, Greece, Spain, Portugal
- Austria, Finland, Sweden incorporated 1995, 1996, and 1997, respectively
- Specific EU survey to harmonize information. In 1997 original surveys discontinued in UK, DE, LU ⇒ existing national panels used + converted into ECHP shape
- Information on demographics, income/financial situation, and accommodation on HH level, as well as information on employment, jobseeking, income, education, health, social relations and satisfaction on individual level.

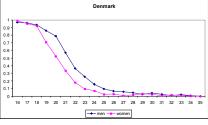
Table 1. Sample sizes in the ECHP

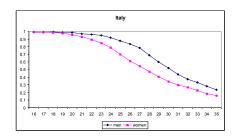
	Wave 1 1994	Wave 2 1995	Wave 3 1996	Wave 4 1997	Wave 5 1998
Denmark Individuals w/ questionnaire Households	7,693 5,903 3,482	7,200 5,503 3,223	6,568 4,994 2,955	6,204 4,628 2,745	5,665 4,187 2,512
Netherlands Individuals w/ questionnaire Households	13,029 9,407 5,187	12,791 9,151 5,110	12,897 9,277 5,179	12,584 9,089 5,049	12,373 8,826 4,963
Spain Individuals w/ questionnaire Households	23,025 17,893 7,206	20,687 16,245 6,512	19,712 15,640 6,267	18,167 14,819 5,794	16,728 13,779 5,485
Italy Individuals w/ questionnaire Households	21,934 17,729 7,115	21,757 17,780 7,128	21,506 17,736 7,132	20,074 16,594 6,713	19,310 15,934 6,571

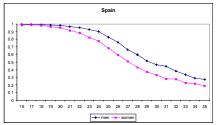
3. Patterns of Nest-leaving

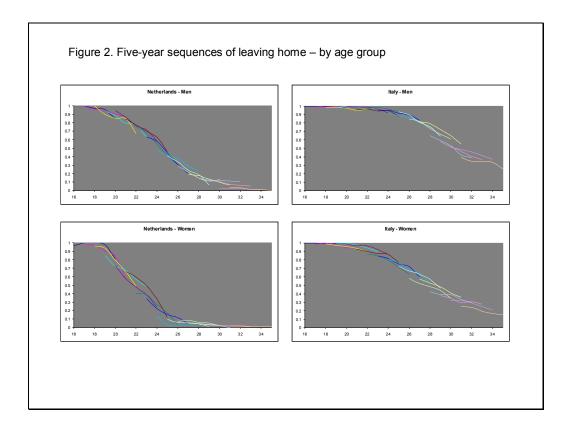
Figure 1. Proportion of young adults living at home by age











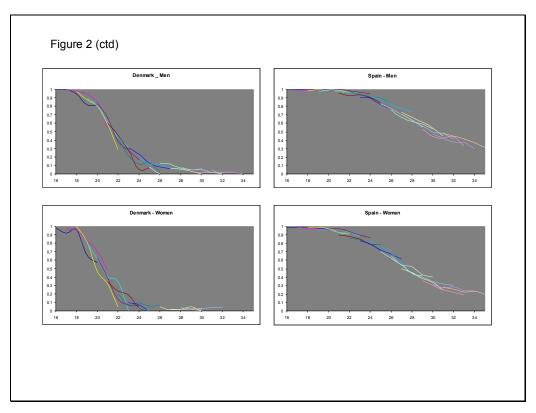


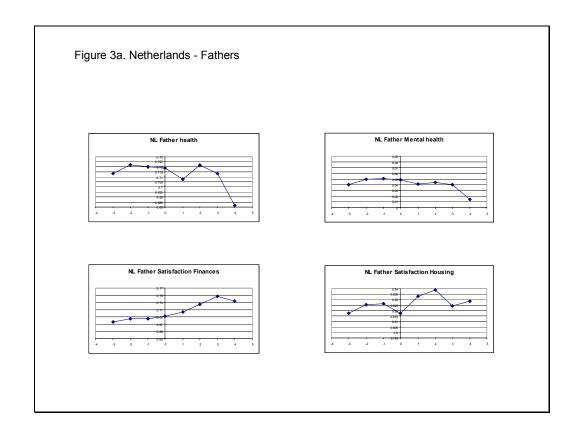
Table 2. Determinants of living at home - Random Effects Probit

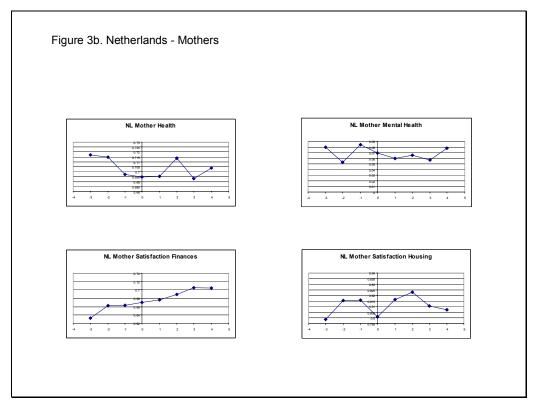
	Netherlands	Denmark	Spain	Italy
Age	-1.222***	-1.957***	417***	277**
	(.223)	(.341)	(.134)	(.130)
Age squared	.010***	.029***	.003	.000
	(.004)	(.007)	(.002)	(.002)
Female	-1.983***	-1.913***	-1.339***	-1.036***
	(.219)	(.277)	(.130)	(.152)
Employed	004	.171	.066	.083
	(.179)	(.248)	(.113)	(.128)
Unemployed	.325	.183	.302***	.307***
	(.328)	(.360)	(.117)	(.118)
Personal income	0001***	00002***	000001***	0001***
	(.000006)	(.000002)	(.0000007)	(.000005)
Household income	.00006***	.00002***	.000001***	.00008***
	(.000003)	(.00001)	(.00000003)	(.000002)
Satisf. finances	009	027	068***	124***
	(.054)	(.061)	(.025)	(.035)
Satisf. housing	.123**	.054	016	.011
	(.058)	(.062)	(.024)	(.031)
Married	-7.98***	-3.498***	-5.597***	-6.461***
	(.651)	(.908)	(.173)	(.205)
High education	-1.376***	227	015	.202
	(.386)	(.383)	(.132)	(.207)
Low education	213	.609**	.213*	.173
	(.178)	(.270)	(.125)	(.117)
Education compl.	-	331	073	430*
	-	(.249)	(.275)	(.253)
Constant	21.818***	25.822***	11.742***	10.655***
	(2.881)	(4.313)	(1.856)	(1.742)
No. observations	9,810	5,669	20,791	23,820
No. of groups	2,460	1,486	5,242	5,406

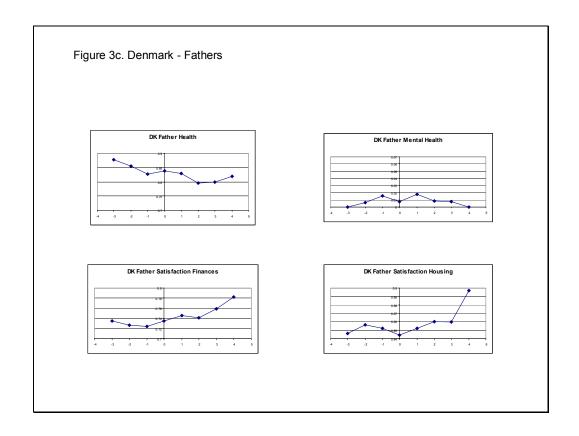
4. Effects of Nest-leaving on parental health and happiness

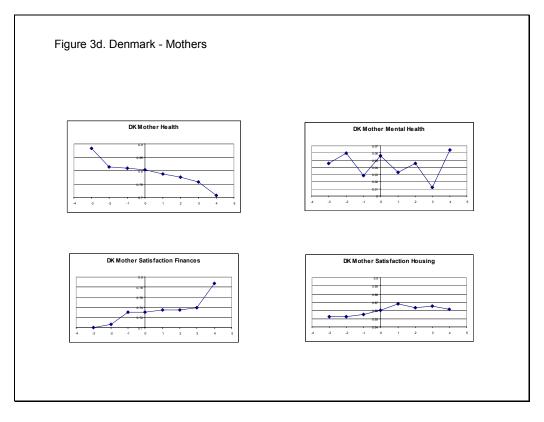
Outcome variables of interest, for both father and mother:

- General health
- Mental health
- Satisfaction w/ financial situation
- Satisfaction w/ housing situation
- ⇒ Figures 3a 3h: Development of outcome variables over time, by country and parent, dependent on years since child left home



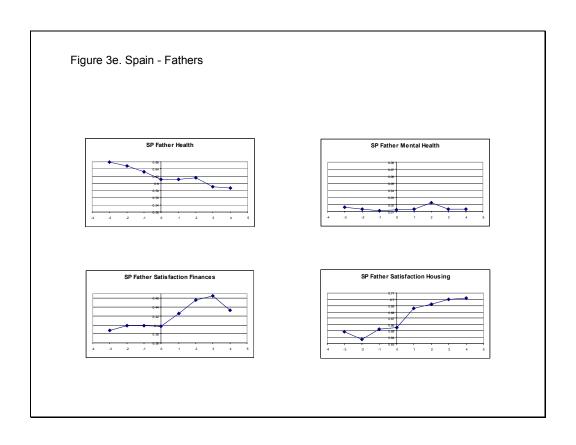


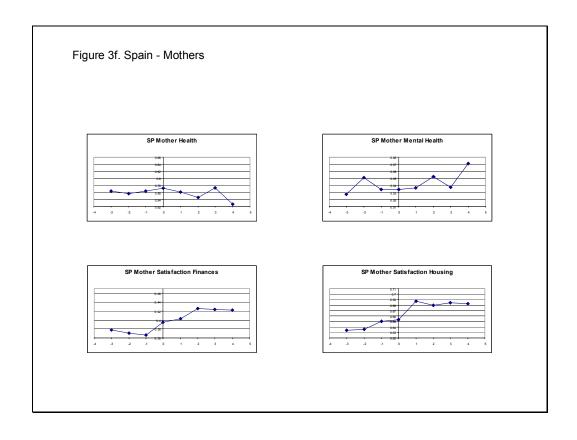


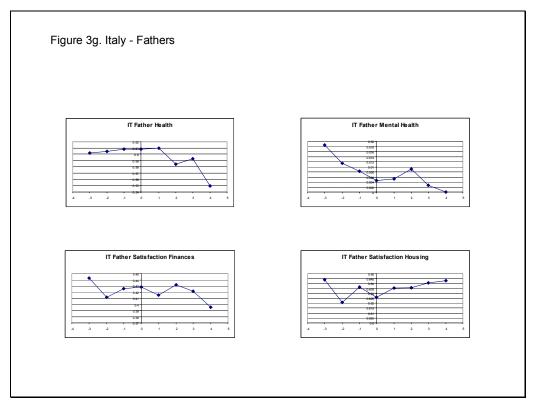


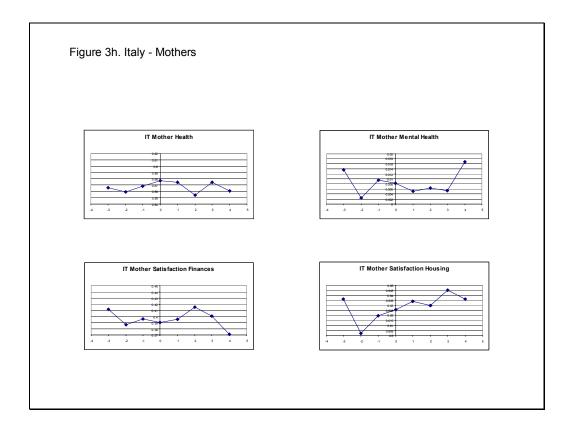
Northern Europe:

- Upward trend in financial satisfaction
- Dip in housing satisfaction preceeding NL (strong in Netherlands, exception: Danish mothers)
- No clear health effects







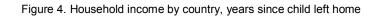


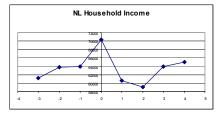
Southern Europe:

- Upward trend in housing satisfaction, no dip directly preceding NL (exception: Italian fathers)\
- Upward trend in financial satisfaction in Spain (like Netherlands, Denmark)
- But: downward in Italy!
- No clear health patterns

Levels:

- Self-rep. health status better in Netherlands (.68-.73) and esp. Denmark (.70-.90) than in Spain (.52-.66) or Italy (.55-.62)
- Mothers more frequently report mental health problems than fathers (except Italy)
- Satisfaction levels higher in Northern than Southern Europe:
 - Finances: NL .62-.75, DK .70-.80 SP .36-.46, IT .32-.45
 - Housing: NL .79-.84, DK .84-.90 SP .63-.71, IT .60-.65
 - (no gender patterns)











- ⇒ Next step: Assess "treatment" effects of NL
- Potential Outcome Model
 - \Rightarrow Counterfactual: What would have happened to parents if their child had not moved out?
- Matching Approach:
 - \Rightarrow Match household in which child left with 'identical' household in which child stayed
 - \Rightarrow 'identical' in terms of covariates
 - ⇒ binary "treatment": leaving the parental home 1/0
 - ⇒ treatment group and comparison group

Covariates

Father + Mother: Age

Employment Status Education

General Health Mental Health

Satisfaction w/ financial situation Satisfaction w/ housing situation

Kid: Age at moving out

Sex

Total household income Household:

> Household size Household quality

Algorithm:

exact matching w/ replacement varying restrictions imposed

Table 3. Pre-match Samples

	.				a			
	Denmark		Netherlands		Spain		Italy	
	Leavers	Stayers	Leavers	Stayers	Leavers	Stayers	Leavers	Stayers
No. Obs.	323	1,019	526	2,947	756	11,759	824	14,001
fatherage	49.01	47.32	51.40	49.24	57.24	53.40	57.62	54.03
motherage	46.80	45.23	49.08	46.92	54.19	50.42	53.48	50.17
Fatheremployed	0.95	0.95	0.81	0.87	0.55	0.68	0.54	0.69
Motheremployed	0.85	0.85	0.56	0.56	0.19	0.26	0.25	0.33
Fatherhealth	0.84	0.84	0.72	0.72	0.61	0.65	0.61	0.62
Motherhealth	0.80	0.81	0.70	0.71	0.58	0.63	0.59	0.61
Fathermental	0.00	0.01	0.05	0.04	0.01	0.01	0.00	0.01
Mothermental	0.05	0.03	0.06	0.06	0.03	0.02	0.01	0.01
Fatherhigheduc	0.37	0.41	0.26	0.18	0.13	0.14	0.04	0.06
Motherhigheduc	0.40	0.36	0.14	0.11	0.05	0.07	0.03	0.04
Fatherloweduc	0.21	0.20	0.14	0.17	0.79	0.75	0.70	0.67
Motherloweduc	0.30	0.29	0.28	0.28	0.88	0.85	0.73	0.71
Fathersatfinance	0.74	0.71	0.70	0.68	0.40	0.41	0.43	0.44
Mothersatfinance	0.77	0.73	0.71	0.70	0.41	0.42	0.40	0.42
Fathersathouse	0.86	0.85	0.82	0.83	0.66	0.67	0.63	0.65
Mothersathouse	0.87	0.86	0.81	0.82	0.66	0.67	0.63	0.65
kidage	20.57	18.45	21.73	19.50	25.45	21.79	26.05	22.40
Kid%female	0.51	0.44	0.48	0.41	0.51	0.45	0.49	0.45
Hhsize	3.93	4.07	3.97	4.16	5.08	4.86	4.55	4.47
Hhtotalincome	354610	334777	75496	65641	3427430	3092376	43975	40180
Hhbath	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99

	Denmark		Netherlands		Spain		Italy	
	Alg.1	Alg.2	Alg.1	Alg.2	Alg.1	Alg.2	Alg.1	Alg.2
General Health								
No. matches	229	120	454	269	686	362	777	480
(%)	(71%)	(37%)	(86%)	(51%)	(91%)	(48%)	(94%)	(58%)
Effect - Father	008	031*	004	008	003	013	.001	.003
Effect - Mother	009	019	.002	.001	002	036	006	001
Mental Health								
No. matches	293	198	504	379	748	630	814	704
(%)	(91%)	(61%)	(96%)	(72%)	(99%)	(83%)	(99%)	(85%)
Effect - Father	.013*	.0003	0003	.005	001	.002	.003	.004
Effect - Mother	.012	0008	011	01	.004	.002	002	.001

Table 5. Effects of Nest-leaving on parental happiness								
	Denmark Alg.1	Alg.2	Netherlands Alg.1	Alg.2	Spain Alg.1	Alg.2	Italy Alg.1	Alg.2
Satisfaction w/								
financial situation								
No. matches	238	94	432	232	686	327	795	455
(%)	(74%)	(29%)	(82%)	(44%)	(91%)	(43%)	(96%)	(55%)
Effect – Father	.007	014	.007	.004	002	.002	024**	021*
Effect – Mother	.004	.004	.001	007	003	004	012	022*
Satisfaction w/								
housing situation								
No. matches	258	103	454	247	696	336	796	463
(%)	(80%)	(32%)	(86%)	(47%)	(92%)	(44%)	(97%)	(56%)
Effect – Father	.020*	.025*	.005	.008*	.002	.003	.002	015
Effect - Mother	003	.010	.004	.011	.023**	0002	.0004	009

Effects by sex of child:

Netherlands:

- Father health -.029* when daughter moves out

Spain:

- Mother satisfaction w/ house +.033** when daughter moves out

Italy:

Mother health
 Mother mental health
 Father satisfaction w/ finance
 Mother satisfaction w/ finance
 Mother satisfaction w/ finance

 -.036*** when daughter moves out
 -.029** when son moves out
 -.029** when son moves out
 -.024** when son moves out

Conclusions

Patterns of nest-leaving in Europe:

- Daughters move out earlier (same across countries)
- Substantial differences in age patterns between North and South of Europe

Determinants of nest-leaving:

- Marriage
- unemployment in IT, $SP \Rightarrow child stays$

Effects of nest-leaving:

- no effects on parental health
- positive effects on parental happiness w/ housing situation across countries (DK, NL, SP)
- negative effects on parental happiness w/ financial situation in Italy

Where do we go from here?

- extend to all countries in the ECHP
- Effects of child moving out combined w/ employment and marriage:
 - ⇒ Child moves out + finds employment / does not find employment
 - ⇒ Child moves out + gets married/ does not get married
- Income effects: who contributes what to household total income before/after NL
- analysis of determinants: include "external" factors ⇒ e.g. labor market conditions, housing prices, cultural factors etc.
- analysis of effects: health next period, check sensitivity to different algorithms

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