

# Intergenerational Time Transfers and Internal Migration.

Accounting for Low Spatial Mobility in Southern Europe

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pto. Economía Aplicada – Universidad d

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#### Large differences in inter-regional mobility rates

- Lower in Europe than in the U.S.
- Particularly appealing: Southern European countries.
- Previous research:
  - 1. Unemployment insurance system: Hassler *et al.* (2003), Antolin and Bover (1997), Barnow and Mellon (1979), Tatsiramos (2004).
  - 2. Homeownership structure: Barcelo (2003), Gobillon (2001), Gardner et al. (2001).
- Hypothesis: intergenerational time transfers deter migration of young couples with children.

#### Introduction

T1. Gross internal migration flows. Working-age population. 2001(3).

				Inter-regional	I		
		Age g	roups	Educat		•	
Country	Total	15-24	25-64	Primary or less	Upper second.	Tertiary	Intra-regional
Greece	0.21	0.56	0.13	0.12	0.25	0.44	2.38
Italy	0.58	n.a.	n.a.	n.a.	n.a.	n.a.	2.48
Portugal	0.54	n.a.	n.a.	n.a.	n.a.	n.a.	3.33
Spain	0.20	0.23	0.19	0.13	0.23	0.33	3.90
France	2.11	3.79	1.70	1.16	1.98	4.13	4.21
Germany	1.36	2.27	1.18	0.97	1.35	1.97	2.58
Sweden	1.79	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
United Kingdom	2.28	3.80	1.94	1.16	1.93	3.90	4.08
Australia	2.01	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Canada	0.95	1.55	8.0	n.a.	n.a.	n.a.	n.a.
Japan	2.21	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
United States	3.05	4.09	2.77	2.34	3.00	3.53	n.a.

## Developed countries with the lowest inter-regional migration rates are those with the highest...

- 1. Percentage of women living close to their mothers.
- 2. Help flows from the mother to emancipated daughters.
- 3. Intergenerational gap in female labour force participation, employment and educational attainment.
- 4. Rationing in the provision of formal childcare services.
- Percentage of women with at least one child at the end of their fertile period.

Conversely, intra-regional migration rates are close to those for other countries.

#### T2. Grandparenting and the location of emancipated women. 2004.

				Gran	dparenting	(weekly hours)
	Daughters	Grandp		Daug	hters living	
Country	living close (%)	Frequency	Daily basis	All	Close	Far
Greece	82.0	56.6	51.8	36.0	36.6	14.9
Italy	82.3	66.5	63.1	25.3	26.2	8.2
Spain	83.7	54.0	55.2	24.4	25.2	9.5
France	57.4	53.7	18.2	14.9	15.3	8.8
Germany	67.4	65.4	22.1	9.4	10.6	4.7
Sweden	57.3	59.5	5.4	5.9	6.3	5.2
United States	44.4	35.8	n.a.	5.2	6.7	6.6

T3. Granparenting time received by couples living close. 2004.

				Age youngest grandchil					
	Mother's	labour status		All		Empl	Employed mothers		
Country	Employed	Non-employed	< 3	3 to 6	≥ 6	< 3	3 to 6	≥ 6	
Greece	40.1	28.8	41.0	32.7	27.1	43.3	40.2	29.2	
Italy	29.3	22.6	20.8	26.3	34.1	30.7	30.2	31.5	
Spain	28.2	18.3	32.9	27.7	12.4	43.4	30.7	15.1	
France	15.9	10.7	16.2	13.5	17.7	16.0	14.4	20.5	
Germany	13.1	6.6	10.0	12.9	8.7	14.0	14.9	11.2	
Sweden	5.6	5.7	4.3	9.2	6.3	4.4	9.0	5.9	
United States	7.5	3.3	6.7	6.7	6.7	7.6	7.5	7.5	

T4. Labour force participation rates by sex and age groups. 1994-2000.

			Fema	ales				Mal	es	
	25-34	35-44	45-54	55-64		25-34	35-44	45-54	55-64	
Country	(1)	(2)	(3)	(4)	(3) over (1)	(5)	(6)	(7)	(8)	(7) over (5)
Greece	66.1	61.7	45.3	24.5	68.6	95.0	97.0	91.4	59.3	96.3
Italy	60.7	58.9	44.2	15.2	72.8	87.9	96.0	87.4	44.9	99.4
Portugal	81.1	78.7	65.8	38.1	81.1	92.7	95.1	90.8	63.2	97.9
Spain	69.6	59.6	42.3	20.8	60.8	92.4	95.2	90.7	57.5	98.2
Finland	77.6	87.8	87.3	41.5	112.5	90.9	92.7	87.3	45.4	96.0
France	78.0	79.2	75.6	31.6	96.9	94.1	96.4	93.4	42.0	99.2
Germany	74.3	77.1	72.8	32.8	97.9	91.1	96.0	92.7	54.2	101.7
Norway	80.2	84.4	81.6	59.5	101.8	90.8	93.3	91.0	73.8	100.2
Sweden	82.0	88.4	88.5	64.5	107.9	89.2	92.4	91.6	71.8	102.7
United Kingdom	73.2	76.6	75.4	40.8	102.9	93.7	93.1	88.8	63.2	94.7
OCDE	66.2	69.7	66.2	37.4	100.1	93.5	94.7	90.5	63.1	96.8
Std. Dev	6.4	9.7	14.4	14.2		2.1	1.8	2.6	12.3	
Australia	68.3	70.9	68.4	31.3	100.1	92.8	92.2	87.9	60.9	94.7
Canada	77.7	79.0	73.2	38.0	94.2	91.4	92.4	88.8	59.4	97.1
Japan	62.1	65.8	69.8	49.2	112.3	97.0	97.9	97.4	84.9	100.5
United States	75.6	77.3	75.7	50.4	100.2	93.1	92.6	89.0	67.1	95.6

T5. Tertiary education attainment by sex and age group. 2003.

			Fema	ales				Male	es	
	25-34	35-44	45-54	55-64		25-34	35-44	45-54	55-64	
Country	(1)	(2)	(3)	(4)	(3) over (1)	(5)	(6)	(7)	(8)	(7) over (5)
Greece	27.5	23.9	15.0	7.9	54.6	21.8	25.6	22.8	15.6	104.6
Italy	17.1	12.6	10.6	5.7	62.3	12.1	11.3	11.3	8.7	93.7
Portugal	23.5	15.1	11.0	6.7	46.7	13.7	10.4	8.5	6.7	61.9
Spain	42.4	29.0	17.4	8.4	41.1	34.1	27.7	21.5	16.6	63.1
Finland	46.7	47.1	35.6	23.7	76.3	29.7	32.9	29.4	27.0	99.1
France	41.5	24.7	18.5	13.5	44.5	34.7	22.4	17.3	15.3	50.0
Germany	22.5	23.1	21.4	14.6	95.0	23.3	30.5	31.0	31.1	132.8
Norway	45.8	36.6	30.3	20.2	66.0	32.8	31.7	28.5	26.3	86.8
Sweden	47.1	38.3	36.1	28.8	76.6	37.7	33.2	29.8	25.8	79.0
United Kingdom	34.6	28.8	26.2	21.0	75.8	34.7	30.0	28.4	23.6	81.8
OECD	37.0	30.0	25.0	18.0	67.6	29.0	27.0	24.0	21.0	82.8
Australia	40.7	32.4	32.0	22.2	78.6	31.5	29.8	29.6	23.8	93.8
Canada	59.8	50.7	43.4	34.7	72.5	46.8	43.3	39.3	34.3	83.9
Japan	54.0	44.0	29.0	14.0	53.7	49.4	46.5	36.1	24.3	73.2
United States	41.9	41.1	40.8	33.1	97.4	36.2	37.8	40.5	39.6	111.9

T6. Indicators of childcare arrangements. 2003(5).

Country	Publicly provided slots per hundred children	Proportion of children using formal childcare
Greece	3	3
Italy	6	6
Portugal	12	12
Spain	2	5
Finland	21	n.a.
France	23	29
Germany (Western)	3	10
Germany (Eastern)	36	36
Sweden	33	48
United Kingdom	2	34
Australia	2	15
Canada	5	45
Japan	n.a.	13
United States	1	54

#### T7. Family size among women aged 40-64 with completed fertility. 2002.

	Distri	bution by	number	of children (%	6)
Country	Average	None	1 or 2	3 or more	Total
Greece	2.00	7.6	65.2	27.2	100
Italy	1.86	11.0	65.4	23.6	100
Portugal	2.61	8.7	53.0	38.3	100
Spain	2.25	8.4	55.7	35.9	100
Finland	2.14	16.0	48.7	35.3	100
France	2.31	6.8	55.6	37.7	100
Germany	1.85	12.0	64.3	23.7	100
Sweden	2.03	10.1	60.3	29.6	100
United Kingdom	2.33	7.5	57.5	34.9	100
Canada	2.00	15.6	55.1	29.4	100
United States	1.93	17.9	n.a.	n.a.	n.a.

#### The model

- Partial equilibrium job search model (Barceló, 2003).
- Childless couples make fertility, female labour supply and inter-regional migration choices taking as given the availability of childcare arrangements.
- Inputs for childcare services: maternal time, transfers from close relatives and formal services.
- Rationing only affects public childcare (Wrohlich, 2006).
- Close relatives do not migrate with the couple.
- "Tied stayers couples"(Mincer, 1978).

#### Simulation results:

- 1. Largest elasticities of migration, female employment and fertility: price of private childcare services.
- 2. Southern European countries will experience an increase in internal migration...
- 3. at the expense of further lowering the fertility rate.

#### The determinants of family migration

- ► European Community Household Panel, 1994-2001.
- Couples in which she (both) is (are) aged 25-45.
- Covariates measured in the year preceding the year of the move.
- Account for unobserved heterogeneity at the family level using random and fixed effects estimators.

T8. Family migration estimates.

	Randon	n effects	Fixed	effects
	Inter-regional	Intra-regional	Inter-regional	Intra-regional
Husband employed	0.198	0.157	-0.248	0.344
	[1.85]	[2.87]	[-0.72]	[2.32]
Wife employed	-0.096	-0.041	0.041	0.069
	[-1.37]	[-0.91]	[0.21]	[0.58]
Wife employed, children	0.015	0.090	0.244	0.237
	[0.20]	[1.78]	[0.99]	[1.61]
Wife employed, children, SE	-0.265	0.041	-1.872	-0.372
	[-1.90]	[0.76]	[-2.69]	[-2.08]
Children (presence)	-0.085	-0.014	-0.123	0.036
	[-2.99]	[-0.85]	[-0.85]	[0.54]
Homeowners	-0.522	-0.804	-1.084	-1.759
	[-10.51]	[-29.10]	[-5.07]	[-15.90]
N	24314	27904	2007	9533

T8b. Family migration estimates (II).

	Randon	n effects	Fixed	effects	
	Inter-regional	Intra-regional	Inter-regional	Intra-regional	
Husband employed	-0.327	0.165	-0.542	0.301	
	[-2.48]	[2.30]	[-1.83]	[2.20]	
Wife employed	0.015	0.055	0.180	0.220	
	[0.19]	[1.24]	[0.93]	[2.35]	
Wife employed, childless	-0.154	-0.160	-0.344	-0.476	
	[-1.61]	[-2.67]	[-1.22]	[-2.79]	
Wife employed, childless, SE	-0.144	-0.017	0.288	0.458	
	[-0.95]	[-0.26]	[0.63]	[2.41]	
Childless	0.328	0.053	0.723	0.136	
	[3.65]	[1.02]	[2.57]	[0.98]	
Homeowners	-0.580	-0.752	-1.022	-1.878	
	[-6.00]	[-15.86]	[-5.06]	[-17.72]	
N	24314	27904	2007	9533	

T9. Family migration and spouses migration records.

	Randon	n effects	Fixed	effects
	Inter-regional	Intra-regional	Inter-regional	Intra-regional
Husband employed	0.195	0.159	-0.248	0.344
	[1.82]	[2.91]	[-0.72]	[2.31]
Wife employed	-0.095	-0.042	0.043	0.074
	[-1.36]	[-0.94]	[0.22]	[0.62]
Wife employed, children	-0.053	0.133	0.174	0.118
	[-0.59]	[2.32]	[0.60]	[0.69]
Wife employed, children, NM	0.122	-0.085	-0.030	0.113
	[1.26]	[-1.35]	[-0.08]	[0.54]
Wife employed, children, NM and SE	-0.508	0.093	-2.254	-0.357
	[-2.46]	[1.51]	[-1.99]	[-1.61]
Children (presence)	-0.084	-0.015	-0.122	0.036
	[-2.94]	[-0.92]	[-0.84]	[0.54]
Homeowners	-0.517	-0.805	-1.087	-1.759
	[-10.40]	[-29.14]	[-5.10]	[-15.90]
N	24314	27904	2007	9533

T10. Husband's employment status and children. FE estimates.

	Inter-re	egional	Intra-re	egional
	(1)	(2)	(1)	(2)
Wife employed	0.074	0.062	0.135	0.137
	[0.47]	[0.39]	[1.55]	[1.58]
Husband employed	0.035	0.005	0.327	0.325
	[0.09]	[0.01]	[1.90]	[1.89]
Husband employed, children	-0.413	-0.294	0.295	0.260
	[-1.43]	[-0.87]	[1.84]	[1.46]
Husband employed, children, NM		-0.470		-0.044
		[-1.14]		[-0.19]
Husband employed, children, NM and SE	-0.110	0.949	-0.591	-0.615
	[-0.21]	[1.42]	[-3.25]	[-2.67]
Children (presence)	0.034	0.042	0.045	0.047
	[0.23]	[0.27]	[0.62]	[0.63]
Homeowners	-1.070	-1.075	-1.765	-1.772
	[-5.03]	[-5.06]	[-15.93]	[-15.97]
N	2007	2007	9533	9533

#### Conclusions

- 1. Living close to the *family* is optimal for S.E. couples with children in which the wife works.
- 2. Reconciling motherhood and work might also result in a higher inter-regional mobility rate.
- The inter-regional migration effect of WW+CH+SE is larger than that for homeownership.

#### Future/current research

- Why do grandmothers take care of their grandchildren? Altruism versus social norms (Rangel (2003) and Cigno (1993)).
- 2. Immigration and the labour force participation, fertility and mobility of Spanish natives.
- 3. What about *culture*? Alesina and Giuliano (2007).

### Thanks!!!