

## WEB APPENDIX

Table 1. *Description of covariates and their mean values by migration status [Full version]*

Covariate	Description	Stayers	Migrants
<i>Personal characteristics</i>			
Female	1 if female, 0 if male	0.538	0.576
Age <sup>†</sup>	Age in years	29.805	28.084
Age2 <sup>†</sup>	Age squared divided by 100	9.088	7.999
Post-grad. education <sup>†</sup>	1 if a person has licentiate or doctoral degree, 0 otherwise	0.029	0.028
Humanities <sup>†</sup>	1 if field of education is humanities or arts, 0 otherwise	0.125	0.159
Trade <sup>†</sup>	1 if field of educ. is business or social sciences, 0 otherwise	0.227	0.218
Technical <sup>†</sup>	1 if field of educ. is technology or natural sciences, 0 otherwise (reference category)	0.243	0.200
Health <sup>†</sup>	1 if field of educ. is health or welfare, 0 otherwise	0.061	0.085
Sports <sup>†</sup>	1 if field of educ. is sports, 0 otherwise	0.009	0.021
Other educ. <sup>†</sup>	1 if field of educ. is teacher educ. or educ. science, agriculture or forestry, or not known, 0 otherwise	0.336	0.302
<i>Household characteristics</i>			
Married <sup>†</sup>	1 if married or cohabiting, 0 otherwise	0.617	0.475
Sp. educ. <sup>†</sup>	Spouse's level of education (0 if no spouse, 1 if comprehensive educ.,..., 5 if higher tertiary educ.)	2.099	1.501
Sp. empl. <sup>†</sup>	1 if spouse is employed, 0 otherwise	0.397	0.253
Sp. income <sup>†</sup>	Annual income of spouse, 10 000 €	1.269	0.646
No children <sup>†</sup>	1 if no children under 18 years in the family, 0 otherwise (ref. category)	0.710	0.820
All children under 7 <sup>†</sup>	1 if all children under 7 years, 0 otherwise	0.215	0.165
School-aged children <sup>†</sup>	1 if 7–18-year-old children in the family, 0 otherwise	0.075	0.015
Not home-owner <sup>†</sup>	1 if person is not owner-occupier of a house or a flat, 0 otherwise (ref. category)	0.470	0.684
House-owner <sup>†</sup>	1 if owner-occupier of a house, 0 otherwise	0.146	0.091
Flat-owner <sup>†</sup>	1 if owner-occupier of a flat as a shareholder in the housing company, 0 otherwise	0.384	0.225
<i>Labor market characteristics</i>			
Employed <sup>†</sup>	1 if employed during the last week of year, 0 otherwise (ref. category)	0.704	0.525
Unempl. <sup>†</sup>	1 if unemployed during the last week of year, 0 otherwise	0.034	0.048
Out-of-labor <sup>†</sup>	1 if person is out of labor force, 0 otherwise	0.261	0.428
Months employed <sup>†</sup>	Number of months employed (0–12)	7.660	5.727
Earnings <sup>†</sup>	Annual earnings subject to state taxation, 10 000 €	2.141	1.333
Unempl. rate <sup>†</sup>	Unemployment rate in travel-to-work area, %	12.583	14.799
Commuting <sup>†</sup>	1 if commuting from the municipality of residence during the last week of a year, 0 otherwise	0.271	0.229

Table 1. (continued)

Covariate	Description	Stayers	Migrants
<i>NUTS 3 region</i>			
Helsinki	1 if living in the NUTS3 region Uusimaa (variable is named after the main university in the region), 0 otherwise	0.546	0.244
Turku	1 if living in Varsinais-Suomi, 0 otherwise	0.114	0.161
Tampere	1 if living in Pirkanmaa, 0 otherwise	0.110	0.160
Lappeenranta	1 if living in Etelä-Karjala, 0 otherwise	0.011	0.041
Kuopio	1 if living in Pohjois-Savo, 0 otherwise	0.017	0.042
Joensuu	1 if living in Pohjois-Karjala, 0 otherwise	0.025	0.067
Jyväskylä	1 if living in Keski-Suomi, 0 otherwise	0.040	0.101
Vaasa	1 if living in Pohjanmaa, 0 otherwise	0.027	0.042
Oulu	1 if living in Pohjois-Pohjanmaa, 0 otherwise	0.089	0.088
Rovaniemi	1 if living in Lappi, 0 otherwise	0.002	0.022
Other regions	1 if living in another NUTS3 region, 0 otherwise	0.019	0.032
<i>Origin-specific characteristics<sup>†</sup></i>			
Living in the origin	1 if living in the NUTS3 region, where the individual resided at the age of 18 years, 0 otherwise	0.696	0.468
Unempl. rate (O) <sup>†</sup>	Unemployment rate currently in the origin NUTS3 region, %	14.094	16.043
ln(distance)	log (road-line distance between the current and origin location, km)	1.947	3.175
Helsinki (O)	1 if origin is in Uusimaa, 0 otherwise	0.384	0.130
Turku (O)	1 if origin is in Varsinais-Suomi, 0 otherwise	0.100	0.114
Tampere (O)	1 if origin is in Pirkanmaa, 0 otherwise	0.091	0.114
Lappeenranta (O)	1 if origin is in Etelä-Karjala, 0 otherwise	0.024	0.040
Kuopio (O)	1 if origin is in Pohjois-Savo, 0 otherwise	0.034	0.059
Joensuu (O)	1 if origin is in Pohjois-Karjala, 0 otherwise	0.031	0.055
Jyväskylä (O)	1 if origin is in Keski-Suomi, 0 otherwise	0.046	0.074
Vaasa (O)	1 if origin is in Pohjanmaa, 0 otherwise	0.029	0.032
Oulu (O)	1 if origin is in Pohjois-Pohjanmaa, 0 otherwise	0.091	0.098
Rovaniemi (O)	1 if origin is in Lappi or Kainuu, 0 otherwise	0.033	0.054
Itä-Uusimaa (O)	1 if origin is in Itä-Uusimaa, 0 otherwise	0.008	0.012
Satakunta (O)	1 if origin is in Satakunta, 0 otherwise	0.028	0.043
Kanta-Häme (O)	1 if origin is in Kanta-Häme, 0 otherwise	0.015	0.019
Päijät-Häme (O)	1 if origin is in Päijät-Häme, 0 otherwise	0.024	0.037
Kymenlaakso (O)	1 if origin is in Kymenlaakso, 0 otherwise	0.021	0.029
Etelä-Savo (O)	1 if origin is in Etelä-Savo, 0 otherwise	0.021	0.037
Etelä-Pohjanmaa (O)	1 if origin is in Etelä-Pohjanmaa, 0 otherwise	0.017	0.041
Keski-Pohjanmaa (O)	1 if origin is in Keski-Pohjanmaa, 0 otherwise	0.008	0.014
Number of observations (individual-years)		30,361	1,452

Notes: The number of residence spells is 4,373. Variables are measured on a year before the migration decision is annually made. <sup>†</sup> Time-varying covariate during the residence spell. i) The origin is the region where the individual resided at the age of 18 years.

Table 3. *Survival rates (%) by origin and region of studies [Full version]*

Interval (years)	Studying at home, in <sup>(ii)</sup>		Studying away, in <sup>(iii)</sup>	
	Helsinki region	Some other region	Helsinki region	Some other region
-2	99.5 %	97.9 %	98.2 %	92.4 %
-1	98.9 %	92.7 %	94.4 %	79.1 %
0 <sup>(i)</sup>	96.8 %	80.8 %	85.8 %	56.6 %
1	94.5 %	73.3 %	80.1 %	47.6 %
2	93.1 %	69.4 %	77.0 %	43.8 %
3	92.2 %	65.9 %	75.4 %	40.9 %
4	91.3 %	63.5 %	73.6 %	39.1 %
5	90.2 %	61.0 %	71.5 %	36.9 %
6	89.2 %	59.7 %	67.8 %	35.5 %
7	88.8 %	58.4 %	66.7 %	34.8 %
8	88.4 %	57.7 %	66.3 %	33.9 %
9	87.7 %	57.1 %	64.4 %	33.9 %
10	87.4 %	56.5 %	64.4 %	33.9 %
11	87.0 %	56.2 %	63.3 %	33.9 %
12	86.4 %	56.2 %	63.3 %	33.9 %
13	85.3 %	56.2 %	63.3 %	33.9 %

Notes: i) Graduation year. ii) and iii) Log-rank test rejects the equality of the survivor functions in both cases:  $\chi^2 = 344.08$  and  $300.82$  (p-values < 0.001).

Table W1. *Discrete-time duration models: migration from Helsinki region*

Covariate	Studying at home		Studying away			
			Onward migrate		Return migrate	
<i>Personal characteristics</i>						
Female	-0.128	(0.201)	-0.200	(0.220)	0.051	(0.236)
Age	0.797*	(0.434)	-0.383	(0.269)	-0.051	(0.416)
Age2	-1.338*	(0.722)	0.634	(0.433)	0.057	(0.692)
Post-grad. educ.	0.641	(0.503)	0.284	(0.679)	0.248	(0.783)
Humanities	0.250	(0.316)	0.728**	(0.315)	-0.181	(0.368)
Trade	-0.241	(0.259)	-1.031**	(0.438)	-0.360	(0.363)
Health	0.999***	(0.328)	1.350***	(0.350)	0.614	(0.429)
Sports	2.327***	(0.473)	1.777***	(0.638)	-0.118	(1.094)
Other educ.	0.463	(0.334)	0.563*	(0.314)	0.166	(0.400)
<i>Household characteristics</i>						
Married	0.114	(0.337)	0.170	(0.356)	0.378	(0.394)
Sp. educ.	-0.038	(0.091)	0.013	(0.097)	-0.100	(0.096)
Sp. empl.	-0.277	(0.293)	-0.212	(0.292)	-0.223	(0.327)
Sp. income	-0.295***	(0.106)	-0.004	(0.105)	-0.093	(0.099)
All children under 7	0.155	(0.300)	0.081	(0.285)	0.645**	(0.310)
School-aged children	0.163	(0.637)	-0.770	(0.592)	-1.245	(1.109)
House-owner	-1.621**	(0.633)	-1.862*	(1.068)	-1.453	(0.981)
Flat-owner	-0.484**	(0.192)	-0.827***	(0.253)	-0.274	(0.260)
<i>Labor market characteristics</i>						
Unempl.	-0.486	(0.495)	0.655	(0.455)	0.407	(0.555)
Out-of-labor	-0.349	(0.298)	0.035	(0.317)	0.257	(0.309)
Months employed	-0.060**	(0.025)	-0.051*	(0.030)	-0.037	(0.034)
Earnings	-0.012	(0.046)	0.022	(0.071)	-0.137	(0.086)
Unempl. rate	-		-		-	
Commuting	0.269	(0.215)	0.296	(0.250)	0.194	(0.270)
<i>Origin-specific characteristics</i>						
Unempl. rate (O)			0.031	(0.149)	0.155	(0.131)
ln(distance)			-2.133	(1.300)	-4.592**	(2.147)
<i>NUTS3 region of origin<sup>(i)</sup></i>						
Tampere (O)			0.385	(0.614)	-0.435	(0.630)
Lappeenranta (O)			0.335	(0.987)	-0.274	(1.186)
Kuopio (O)			2.138	(1.409)	2.087	(2.032)
Joensuu (O)			1.516	(1.811)	2.482	(2.515)
Jyväskylä (O)			0.894	(1.107)	1.205	(1.355)
Vaasa (O)			0.807	(1.626)	5.244**	(2.166)
Oulu (O)			3.109*	(1.856)	5.896**	(2.930)
Rovaniemi (O)			2.580	(2.275)	2.361	(3.293)
Itä-Uusimaa (O)			-3.249*	(1.742)	-4.761*	(2.553)
Satakunta (O)			0.939	(0.956)	0.980	(1.167)
Kanta-Häme (O)			-0.952	(0.873)	-3.340***	(1.249)
Päijät-Häme (O)			-0.480	(0.925)	-2.885***	(1.088)
Kymenlaakso (O)			-0.221	(0.745)	-2.044**	(0.822)
Etelä-Savo (O)			0.669	(1.057)	-0.065	(1.174)
Etelä-Pohj. (O)			1.383	(1.176)	2.848	(1.878)
Keski-Pohj. (O)			2.259	(1.627)	4.236*	(2.565)

Table W1. (continued)

Covariate	Studying at home	Studying away				
		Onward migrate		Return migrate		
<i>Baseline hazard</i>						
$\alpha_{-2}$	-16.053** (6.436)	10.618	(8.147)	18.579	(12.667)	
$\alpha_{-1}$	-16.059** (6.578)	11.785	(8.185)	19.250	(12.650)	
$\alpha_0$	-14.322** (6.485)	13.029	(8.198)	20.346	(12.642)	
$\alpha_1$	-14.263** (6.524)	12.827	(8.196)	20.319	(12.646)	
$\alpha_2$	-14.622** (6.525)	12.302	(8.226)	20.202	(12.680)	
$\alpha_3$	-14.968** (6.573)	11.827	(8.232)	19.689	(12.715)	
$\gamma_0$	-14.753** (6.562)	12.201	(8.232)	20.156	(12.674)	
$\gamma_1$	-0.048 (0.320)	-0.141	(0.297)	-0.358	(0.439)	
Year dummies	Yes	Yes		Yes		
Log-likelihood	-646.73	-513.41		-437.58		
LR-test for random effects	p = 0.345	p < 0.001		p = 0.114		
Number of obs.	11,467	5,471		5,471		

Notes: Parameter estimates are given, followed by robust standard errors in parenthesis that allow for clustering at the individual-level. Definitions of variables and reference categories are given in Table 1. \*, \*\*, \*\*\* denote significance at 10%, 5%, 1% significance levels. i) Turku is the NUTS3 reference region for the origin. These estimates are used in drawing the Figures 2 and 3 in the paper.

Table W2. *Discrete-time duration models: migration from regions other than Helsinki*

Covariate	Studying at home		Studying away			
			Onward migrate		Return migrate	
<i>Personal characteristics</i>						
Female	0.236**	(0.096)	-0.133	(0.129)	-0.189	(0.168)
Age	0.546***	(0.207)	0.562**	(0.268)	0.853**	(0.367)
Age2	-0.896**	(0.358)	-0.971**	(0.467)	-1.616**	(0.649)
Post-grad. educ.	1.155***	(0.223)	-1.337	(1.200)	2.208***	(0.617)
Humanities	0.023	(0.167)	0.474**	(0.210)	0.016	(0.284)
Trade	0.391***	(0.141)	0.549***	(0.196)	0.146	(0.252)
Health	0.321*	(0.185)	0.473*	(0.279)	0.271	(0.319)
Sports	0.943***	(0.318)	0.352	(0.471)	0.453	(0.528)
Other educ.	0.154	(0.158)	0.481**	(0.224)	-0.039	(0.279)
<i>Household characteristics</i>						
Married	-0.893***	(0.216)	-0.494**	(0.232)	0.021	(0.272)
Sp. educ.	0.207***	(0.053)	0.128*	(0.071)	-0.114	(0.089)
Sp. empl.	-0.256	(0.177)	-0.537***	(0.196)	-0.154	(0.242)
Sp. income	-0.167**	(0.077)	-0.069	(0.100)	-0.035	(0.101)
All children under 7	-0.013	(0.166)	-0.276	(0.186)	0.392*	(0.225)
School-aged children	-0.809*	(0.485)	-0.843*	(0.477)	-0.555	(0.764)
House-owner	-0.491***	(0.118)	-1.817***	(0.548)	-0.351	(0.437)
Flat-owner	-0.259**	(0.107)	-0.466***	(0.179)	-0.319	(0.243)
<i>Labor market characteristics</i>						
Unempl.	0.065	(0.235)	0.529*	(0.308)	0.852*	(0.438)
Out-of-labor	0.288**	(0.146)	0.501***	(0.179)	0.734***	(0.247)
Months employed	-0.005	(0.014)	-0.008	(0.020)	-0.042*	(0.025)
Earnings	-0.093*	(0.056)	-0.157*	(0.085)	0.030	(0.097)
Unempl. rate	-0.004	(0.024)	0.011	(0.078)	0.225***	(0.068)
Commuting	0.340***	(0.121)	0.713***	(0.174)	0.722***	(0.244)
<i>NUTS3 region of origin<sup>(i)</sup></i>						
Tampere	0.207	(0.144)	0.382	(0.265)	-0.837***	(0.277)
Lappeenranta	0.891***	(0.246)	1.403***	(0.443)	-0.243	(0.442)
Kuopio	0.287	(0.253)	0.674*	(0.386)	-0.326	(0.381)
Joensuu	0.635***	(0.238)	0.580	(0.491)	-0.699	(0.472)
Jyväskylä	0.526***	(0.196)	0.749*	(0.392)	-1.180***	(0.395)
Vaasa	-0.064	(0.234)	0.594**	(0.298)	0.551	(0.342)
Oulu	0.039	(0.155)	0.031	(0.360)	-0.310	(0.395)
Rovaniemi	1.568***	(0.294)	0.487	(0.665)	-0.226	(0.654)
Other regions	0.751***	(0.258)	0.459	(0.536)	-0.433	(0.528)

Table W2. (continued)

Covariate	Studying at home		Studying away			
			Onward migrate		Return migrate	
<i>Origin-specific characteristics</i>						
Unempl. rate (O)			0.063	(0.075)	-0.082	(0.084)
ln(distance)			0.422***	(0.139)	-0.159	(0.181)
<i>NUTS3 region of origin<sup>i</sup></i>						
Helsinki (O)			-0.580	(0.532)	-0.133	(0.416)
Tampere (O)			-0.270	(0.495)	0.139	(0.427)
Lappeenranta (O)			-0.288	(0.562)	-0.596	(0.588)
Kuopio (O)			-0.308	(0.541)	-0.926	(0.581)
Joensuu (O)			-0.159	(0.728)	-1.351	(0.967)
Jyväskylä (O)			-0.013	(0.548)	-0.931	(0.588)
Vaasa (O)			-0.297	(0.543)	-1.115**	(0.525)
Oulu (O)			-0.780	(0.514)	-0.559	(0.489)
Rovaniemi (O)			-0.702	(0.806)	-1.744*	(0.939)
Itä-Uusimaa (O)			1.359**	(0.602)	-1.815	(1.251)
Satakunta (O)			0.271	(0.555)	-0.204	(0.533)
Kanta-Häme (O)			0.487	(0.472)	-2.975***	(1.070)
Päijät-Häme (O)			-0.077	(0.524)	-0.805	(0.553)
Kymenlaakso (O)			-0.351	(0.569)	-0.928	(0.578)
Etelä-Savo (O)			0.462	(0.581)	-0.967	(0.659)
Etelä-Pohjanmaa (O)			0.104	(0.435)	-0.702*	(0.393)
Keski-Pohjanmaa (O)			0.390	(0.483)	-2.171***	(0.752)
<i>Baseline hazard</i>						
$\alpha_{-2}$	-12.357***	(2.956)	-15.966***	(4.094)	-14.106***	(5.332)
$\alpha_{-1}$	-11.506***	(3.013)	-14.978***	(4.142)	-13.688**	(5.360)
$\alpha_0$	-10.579***	(3.026)	-14.020***	(4.147)	-12.782**	(5.359)
$\alpha_1$	-10.791***	(3.035)	-14.100***	(4.156)	-13.392**	(5.388)
$\alpha_2$	-11.314***	(3.043)	-14.647***	(4.165)	-13.422**	(5.342)
$\alpha_3$	-11.348***	(3.040)	-14.570***	(4.169)	-13.759**	(5.370)
$\gamma_0$	-11.584***	(3.054)	-14.680***	(4.129)	-13.569**	(5.338)
$\gamma_1$	-0.362*	(0.191)	-0.010	(0.376)	-0.583	(0.432)
Year dummies	Yes		Yes		Yes	
Log-likelihood	-1,888.30		-1,002.26		-666.73	
LR-test for random effects	p = 0.493		p = 0.499		p = 0.497	
Number of obs.	10,357		4 518		4,518	

Notes: Parameter estimates are given, followed by robust standard errors in parenthesis that allow for clustering at the individual-level. Definitions of variables and reference categories are given in Table 1. \*, \*\*, \*\*\* denote significance at 10%, 5%, 1% significance levels. i) Turku is the NUTS3 reference region. These estimates are used in drawing the Figures 2 and 3 in the paper.

Table W3. *Survival rates by origin and the region of studies, %*

Interval (years)	Studying at home, in region									
	HKI <sup>(iii)</sup>	TKU	TRE	LPR	KUO	JO	JY	VA	OU	OTH
-2	99.5	97.8	96.9	97.8	100.0	94.9	97.4	100.0	99.3	98.6
-1	98.9	93.3	92.5	93.3	93.9	81.8	91.3	95.9	95.7	91.5
0 <sup>(i)</sup>	96.7	84.3	81.8	75.6	83.7	68.7	75.7	82.2	86.7	60.6
1	94.5	78.4	74.6	62.2	73.5	59.6	61.7	75.3	80.6	54.9
2	93.1	74.2	70.2	53.7	67.0	56.3	60.8	71.2	77.6	50.7
3	92.2	71.9	67.1	47.8	59.8	50.0	55.4	68.3	74.8	46.5
4	91.3	66.9	65.7	44.1	57.2	48.5	53.0	66.9	73.8	45.1
5	90.2	64.8	63.3	40.1	54.2	46.8	50.1	66.9	69.1	45.1
6	89.2	63.2	62.7	35.6	54.2	46.8	48.4	66.9	67.8	42.0
7	88.8	60.0	61.2	35.6	54.2	46.8	48.4	66.9	66.3	42.0
8	88.4	58.6	61.2	35.6	54.2	46.8	48.4	66.9	64.6	42.0
9	87.7	57.8	61.2	35.6	54.2	46.8	45.4	64.3	64.6	42.0
10	87.4	57.8	59.7	35.6	54.2	46.8	45.4	64.3	63.5	42.0
11	87.0	57.8	59.7	35.6	54.2	46.8	45.4	64.3	62.0	42.0
12	86.4	57.8	59.7	35.6	54.2	46.8	45.4	64.3	62.0	42.0
13	85.3	57.8	59.7	35.6	54.2	46.8	45.4	64.3	62.0	42.0
N <sup>(ii)</sup>	1,292	357	319	45	49	99	115	73	279	71
Interval (years)	Studying away, in region									
	HKI <sup>(iii)</sup>	TKU	TRE	LPR	KUO	JO	JY	VA	OU	OTH
-2	98.2	93.4	93.8	90.2	89.5	92.1	92.1	91.8	93.9	83.7
-1	94.4	80.9	81.9	51.2	80.7	76.2	80.3	73.5	87.9	67.4
0 <sup>(i)</sup>	85.8	60.1	65.8	24.4	42.1	41.3	54.3	57.1	73.7	27.9
1	80.1	50.3	60.1	14.6	38.6	30.2	39.4	42.9	65.7	23.3
2	77.0	47.1	56.2	14.6	34.5	26.1	34.0	34.3	63.3	20.9
3	75.4	43.4	53.0	14.6	31.7	26.1	31.1	28.1	61.8	16.3
4	73.6	40.9	51.4	14.6	28.1	23.8	29.9	28.1	59.9	14.0
5	71.5	38.9	48.6	14.6	23.4	23.8	28.5	20.0	57.6	14.0
6	67.8	38.9	44.6	14.6	23.4	23.8	26.9	20.0	57.6	14.0
7	66.7	37.5	44.6	14.6	23.4	23.8	26.9	20.0	53.8	14.0
8	66.3	37.5	42.5	14.6	23.4	23.8	24.6	20.0	53.8	14.0
9	64.4	37.5	42.5	14.6	23.4	23.8	24.6	20.0	53.8	14.0
10	64.4	37.5	42.5	14.6	23.4	23.8	24.6	20.0	53.8	14.0
11	63.2	37.5	42.5	14.6	23.4	23.8	24.6	20.0	53.8	14.0
12	63.2	37.5	42.5	14.6	23.4	23.8	24.6	20.0	53.8	14.0
13	63.2	37.5	42.5	14.6	23.4	23.8	24.6	20.0	53.8	14.0
N <sup>(ii)</sup>	769	183	243	41	57	63	127	49	99	43

Notes: i) Graduation year. ii) Number of graduates. iii) NUTS3 regions are renamed after the university: HKI = Helsinki, TKU = Turku, TRE = Tampere, LPR = Lappeenranta, KUO = Kuopio, JO = Joensuu, JY = Jyväskylä, VA = Vaasa, OU = Oulu, OTH = other regions, including Rovaniemi.



Table W4. *Mean values by origin and migration status*

Covariate	Studying at home		Studying away		
	Stayers	Migrants	Stayers	Onward migrants	Return migrants
Female	0.522	0.555	0.575	0.599	0.590
Age <sup>†</sup>	29.859	28.280	29.680	28.092	27.638
Age2 <sup>†</sup>	9.119	8.102	9.018	8.013	7.750
Post-grad. education <sup>†</sup>	0.032	0.046	0.023	0.009	0.020
Humanities <sup>†</sup>	0.111	0.130	0.158	0.208	0.150
Trade <sup>†</sup>	0.240	0.240	0.197	0.206	0.186
Technical <sup>†</sup>	0.248	0.224	0.231	0.167	0.195
Health <sup>†</sup>	0.065	0.085	0.053	0.082	0.088
Sports <sup>†</sup>	0.006	0.024	0.014	0.019	0.020
Other educ. <sup>†</sup>	0.315	0.286	0.325	0.303	0.339
Married <sup>†</sup>	0.602	0.404	0.653	0.536	0.541
Sp. educ. <sup>†</sup>	2.065	1.343	2.178	1.700	1.547
Sp. empl. <sup>†</sup>	0.391	0.230	0.410	0.268	0.283
Sp. income <sup>†</sup>	1.253	0.552	1.306	0.732	0.722
No children <sup>†</sup>	0.713	0.851	0.704	0.811	0.762
All children under 7 <sup>†</sup>	0.217	0.135	0.209	0.170	0.225
School-aged children <sup>†</sup>	0.070	0.013	0.087	0.019	0.013
Not home-owner <sup>†</sup>	0.417	0.545	0.592	0.824	0.781
House-owner <sup>†</sup>	0.173	0.172	0.084	0.011	0.033
Flat-owner <sup>†</sup>	0.410	0.283	0.324	0.165	0.186
Employed <sup>†</sup>	0.715	0.582	0.681	0.494	0.446
Unempl. <sup>†</sup>	0.035	0.049	0.032	0.052	0.039
Out-of-labor <sup>†</sup>	0.250	0.370	0.288	0.455	0.515
Months employed <sup>†</sup>	7.689	6.062	7.592	5.545	5.264
Earnings <sup>†</sup>	2.192	1.439	2.024	1.231	1.254
Unempl. rate <sup>†</sup>	12.677	15.652	12.369	14.303	13.667
Commuting <sup>†</sup>	0.282	0.249	0.245	0.210	0.212
Helsinki	0.536	0.194	0.570	0.264	0.322
Turku	0.122	0.187	0.095	0.118	0.169
Tampere	0.103	0.168	0.127	0.174	0.124
Lappeenranta	0.011	0.037	0.010	0.045	0.046
Kuopio	0.015	0.031	0.023	0.054	0.049
Joensuu	0.026	0.074	0.024	0.062	0.059
Jyväskylä	0.032	0.082	0.058	0.139	0.081
Vaasa	0.030	0.037	0.019	0.049	0.042
Oulu	0.102	0.130	0.059	0.054	0.049
Rovaniemi	0.002	0.019	0.003	0.021	0.029
Other regions	0.022	0.041	0.012	0.019	0.029
Living in the origin	0	0	1	1	1
Unempl. rate (O) <sup>†</sup>	13.013	15.915	16.574	16.941	14.964
ln(distance)	0.433	0.609	5.420	5.463	5.381
Number of observations	21,145	679	9,216	466	307

See notes to Table 1. <sup>†</sup> Time-varying covariate during a residence spell.

Table W5. *Descriptive statistics by origin*

Graduate in	Observed spell begins in	Studying at home			Studying away			% of early migrants returning
		N <sup>(i)</sup>	Early migrant <sup>(ii)</sup>		N <sup>(i)</sup>	Early migrant <sup>(ii)</sup>		
			Freq.	%		Freq.	%	
1991	1988	188	15	8.0	56	18	32.1	27.8
1992	1989	149	12	8.1	61	17	27.9	29.4
1993	1990	188	22	11.7	70	19	27.1	36.8
1994	1991	184	20	10.9	64	14	21.9	21.4
1995	1992	197	25	12.7	71	12	16.9	50.0
1996	1993	178	23	12.9	80	18	22.5	55.6
1997	1994	212	26	12.3	117	37	31.6	32.4
1998	1995	235	35	14.9	147	38	25.9	23.7
1999	1996	242	24	9.9	181	50	27.6	36.0
2000	1997	215	32	14.9	182	67	36.8	46.3
2001	1998	239	29	12.1	204	68	33.3	50.0
2002	1999	218	20	9.2	215	68	31.6	45.6
2003	2000	254	29	11.4	226	76	33.6	42.1
All spells (N = 4,373)		2,699	312	11.6	1,674	502	30.0	40.4

Notes: i) N = number of individuals; ii) An individual moves from a region to another by the end of graduation year conditional on living in the region of studies three years ago.

Table W6. *Early migrants<sup>(i)</sup> (%) by origin and region of studies*

Graduate in	Observed spell begins in	Studying in Helsinki		Studying in some other region	
		At home	Away	At home	Away
1991	1988	3.2 %	19.2 %	12.9 %	43.3 %
1992	1989	2.9 %	26.7 %	12.5 %	29.0 %
1993	1990	4.8 %	10.0 %	17.1 %	40.0 %
1994	1991	2.4 %	16.2 %	18.2 %	29.6 %
1995	1992	3.5 %	7.7 %	19.8 %	28.1 %
1996	1993	1.2 %	10.6 %	23.2 %	39.4 %
1997	1994	3.9 %	18.6 %	20.2 %	44.8 %
1998	1995	7.1 %	14.1 %	22.0 %	36.8 %
1999	1996	0.9 %	15.1 %	17.7 %	40.9 %
2000	1997	5.2 %	9.6 %	22.9 %	55.0 %
2001	1998	2.7 %	10.8 %	20.3 %	52.3 %
2002	1999	2.8 %	13.8 %	15.6 %	42.2 %
2003	2000	2.0 %	17.6 %	24.3 %	44.4 %

Notes: i) An individual moves from a region to another by the end of graduation year conditional on living in the region of studies three years ago.