

On-line appendix (not for publication)

A Descriptive statistics

This appendix provides tables of descriptive statistics of the original micro data, as well as broad labour market patterns, such as wage inequality, participation and employment by education group.

B Additional results: Imputations

In order to check the robustness of our imputation method, Table [A.4](#) reports estimates based on a probit model. The imputation technique proceeds in two steps. First, we estimate a probit model for the probability of earning a wage below the gender-specific median, controlling for education dummies, experience, and its square. The estimated probabilities, \hat{P}_i , are then used as sampling weights to impute the wages of the non-employed individuals. Specifically, each non-employed individual appears twice in the imputed sample: with a wage above the median and a weight \hat{P}_i , and with a wage below the median and a weight $1 - \hat{P}_i$. To account for a bias in the reference median wage in the first step, we enlarge our base sample with wage observations from other waves. The conclusions from a probabilistic model are robust to a more general specification that includes marital status, the number of children, and the position of spouse income in their gender-specific distribution.

The goodness of imputation of our second method, Spousal Income, is reported in table [A.5](#).

Our third imputation method attributes to non-employed individuals who are observed as having been employed in other waves of the panel their wage in the nearest year for which it is available. The results are reported in Table [A.6](#).

Unfortunately, since the panel dimension of our data is not long, we only have a limited number of available observations to impute. As can be seen from table [A.5](#), we impute around a third of observations and, particularly, few women in Southern Europe. These figures are much lower than those in [Olivetti and Petrongolo \(2008\)](#), who have a longer panel. Low imputation rates imply that a lower gap is found between the EU periphery and the EU core concerning female selection in 2007. Changes in selection biases since the onset of the GR are smaller than those obtained under the other imputation methods. This is particularly the case for female selection, except in Greece. This smaller variation is not surprising since, e.g., in Spain the imputation rates for 2007 and 2012 are 23% and 30%, while they were 66% and 73% with Impu-

tation EE. Yet, as with the other imputation methods, we still document a sizeable increase in male selection in peripheral countries, making this finding rather robust.

C Additional results: Quantile regressions

This appendix reports the quantile regressions for Greece and Italy.

Table A.1: Descriptive Statistics of Samples Used

	2007						2012					
	Males			Females			Males			Females		
	N	M	SD	N	M	SD	N	M	SD	N	M	SD
Greece												
Employed	1799	.85	.35	2320	.54	.50	1205	.60	.49	1559	.43	.50
Unemployed	1799	.11	.31	2320	.11	.31	1205	.35	.48	1559	.27	.45
Inactive	1799	.04	.19	2320	.35	.48	1205	.05	.22	1559	.30	.46
Annual Earnings	1651	21.63	15.73	1383	16.10	10.44	839	17.38	12.58	729	14.26	9.05
Annual Hours	1587	2073	506	1322	1770	575	810	1891	565	707	1707	597
Log(hourly wage)	1587	2.02	.57	1322	1.90	.56	810	1.80	.49	707	1.72	.53
Age	1799	38.80	8.42	2320	38.92	8.43	1205	38.77	8.50	1559	39.22	8.44
Educ1	1789	.27	.44	2311	.28	.45	1203	.21	.40	1555	.21	.41
Educ2	1789	.41	.49	2311	.35	.48	1203	.43	.50	1555	.38	.49
Educ3	1789	.26	.44	2311	.30	.46	1203	.28	.45	1555	.34	.47
Experience	1799	16.76	9.60	2320	10.19	9.08	1205	15.39	9.94	1559	10.24	9.19
Temporary	1580	.21	.41	1315	.23	.42	666	.15	.36	591	.17	.37
Spouse 1st quartile	1799	.36	.48	2320	.34	.47	1205	.37	.48	1559	.40	.49
Spouse 2nd quartile	1799	.08	.27	2320	.11	.31	1205	.05	.22	1559	.07	.26
Spouse 3rd quartile	1799	.09	.29	2320	.13	.34	1205	.07	.25	1559	.11	.31
Spouse 4th quartile	1799	.09	.28	2320	.16	.37	1205	.08	.27	1559	.12	.33
Italy												
Employed	7848	.85	.36	9534	.56	.50	4341	.79	.41	5311	.56	.50
Unemployed	7848	.09	.29	9534	.10	.30	4341	.17	.38	5311	.13	.33
Inactive	7848	.06	.24	9534	.35	.48	4341	.03	.18	5311	.31	.46
Annual Earnings	7068	19.05	8.90	6123	14.45	7.35	3851	19.02	10.64	3576	14.56	8.02
Annual Hours	6703	2089	436	5349	1716	521	3535	2011	449	3138	1716	506
Log(hourly wage)	6703	2.03	.42	5349	1.99	.46	3535	1.95	.50	3138	1.86	.52
Age	7848	39.68	8.21	9534	40.08	8.05	4341	40.40	8.20	5311	41.15	8.04
Educ1	7818	.44	.50	9500	.40	.49	4318	.39	.49	5298	.36	.48
Educ2	7818	.39	.49	9500	.38	.49	4318	.43	.50	5298	.43	.49
Educ3	7818	.13	.34	9500	.16	.37	4318	.15	.35	5298	.18	.38
Experience	7848	16.82	9.58	9534	11.54	9.18	4341	17.59	9.29	5311	13.36	9.19
Temporary	6487	.10	.30	5243	.14	.35	3336	.09	.29	2958	.12	.33
Spouse 1st quartile	7848	.36	.48	9534	.30	.46	4341	.35	.48	5311	.29	.46
Spouse 2nd quartile	7848	.08	.28	9534	.12	.32	4341	.09	.29	5311	.12	.32
Spouse 3rd quartile	7848	.08	.28	9534	.13	.34	4341	.08	.28	5311	.13	.34
Spouse 4th quartile	7848	.08	.27	9534	.15	.36	4341	.08	.28	5311	.16	.36
Spain												
Employed	5908	.89	.31	7022	.67	.47	3512	.72	.45	4129	.60	.49
Unemployed	5908	.08	.27	7022	.11	.31	3512	.27	.44	4129	.26	.44
Inactive	5908	.03	.17	7022	.22	.41	3512	.01	.11	4129	.15	.35
Annual Earnings	5506	17.47	8.93	5035	13.05	8.19	3029	16.66	11.10	2893	13.19	9.52
Annual Hours	5282	2107	489	4658	1760	597	2662	1931	576	2531	1652	642
Log(hourly wage)	5282	1.85	.48	4656	1.72	.54	2642	1.83	.61	2512	1.72	.63
Age	5908	38.36	8.29	7022	38.86	8.25	3512	39.81	8.08	4129	40.22	8.02
Educ1	5832	.41	.49	6908	.39	.49	3427	.42	.49	4020	.35	.48
Educ2	5832	.23	.42	6908	.25	.43	3427	.24	.43	4020	.24	.43
Educ3	5832	.35	.48	6908	.35	.48	3427	.34	.47	4020	.41	.49
Experience	5842	18.03	9.75	6964	13.05	9.23	3510	13.69	11.55	4125	9.76	10.45
Temporary	5028	.23	.42	4461	.28	.45	2464	.20	.40	2304	.24	.43
Spouse 1st quartile	5908	.33	.47	7022	.26	.44	3512	.33	.47	4129	.27	.45
Spouse 2nd quartile	5908	.10	.31	7022	.13	.34	3512	.11	.31	4129	.13	.33
Spouse 3rd quartile	5908	.10	.30	7022	.14	.35	3512	.10	.30	4129	.15	.36
Spouse 4th quartile	5908	.11	.31	7022	.17	.38	3512	.11	.32	4129	.18	.38

Source: EU-SILC and authors' calculations. Note: The descriptive statistics refer to the base samples, aged 25-54, excluding the self-employed, those in the military, and those in full-time education. Description of variables: Employed, unemployed, and inactive are self-defined. Educ1=1 if less than upper secondary education. Educ2=1 if upper secondary education completed. Educ3=1 if higher education. Married=1 if living in a couple.

Table A.1: Descriptive Statistics of Samples Used

	2007						2012					
	Males			Females			Males			Females		
	N	M	SD	N	M	SD	N	M	SD	N	M	SD
Portugal												
Employed	1880	.84	.37	2250	.71	.45	1803	.75	.43	2124	.69	.46
Unemployed	1880	.10	.30	2250	.10	.30	1803	.22	.41	2124	.19	.39
Inactive	1880	.06	.24	2250	.19	.39	1803	.03	.17	2124	.12	.33
Annual Earnings	1658	10.91	7.10	1631	8.81	6.10	1458	11.15	6.91	1575	9.36	5.83
Annual Hours	1639	2092	431	1625	1863	505	1408	2096	553	1524	1926	514
Log(hourly wage)	1635	1.38	.51	1602	1.25	.58	1406	1.34	.49	1521	1.26	.49
Age	1880	38.45	8.73	2250	39.61	8.57	1803	40.50	8.32	2124	40.65	8.10
Educ1	1831	.72	.45	2185	.66	.47	1759	.63	.48	2073	.53	.50
Educ2	1831	.16	.37	2185	.15	.36	1759	.22	.41	2073	.23	.42
Educ3	1831	.11	.32	2185	.18	.39	1759	.15	.35	2073	.23	.42
Experience	1874	19.59	10.55	2247	17.18	10.63	1800	21.63	10.51	2124	18.92	10.11
Temporary	1556	.17	.38	1546	.21	.41	1260	.14	.35	1372	.14	.35
Spouse 1st quartile	1880	.31	.46	2250	.29	.46	1803	.33	.47	2124	.29	.45
Spouse 2nd quartile	1880	.10	.30	2250	.12	.32	1803	.13	.33	2124	.13	.34
Spouse 3rd quartile	1880	.10	.30	2250	.13	.34	1803	.13	.34	2124	.13	.34
Spouse 4th quartile	1880	.08	.28	2250	.16	.37	1803	.12	.33	2124	.15	.36
Austria												
Employed	2329	.88	.33	2647	.71	.45	1522	.88	.32	1769	.72	.45
Unemployed	2329	.07	.25	2647	.06	.23	1522	.08	.27	1769	.06	.24
Inactive	2329	.05	.22	2647	.23	.42	1522	.04	.20	1769	.22	.41
Annual Earnings	2176	36.11	21.83	2033	23.05	36.77	1348	43.29	31.89	1425	24.64	17.84
Annual Hours	2098	2118	430	1905	1623	626	1365	2108	491	1311	1605	598
Log(hourly wage)	2090	2.61	.50	1892	2.39	.56	1275	2.66	.64	1226	2.44	.58
Age	2329	40.40	8.16	2647	40.25	8.23	1522	40.74	8.70	1769	40.90	8.44
Educ1	2329	.09	.29	2647	.16	.37	1522	.10	.30	1769	.17	.38
Educ2	2329	.59	.49	2647	.50	.50	1522	.56	.50	1769	.48	.50
Educ3	2329	.21	.41	2647	.18	.39	1522	.22	.42	1769	.18	.39
Experience	2328	21.28	9.26	2646	16.63	9.56	1522	22.10	9.79	1768	17.66	9.63
Temporary	2084	.04	.19	1845	.06	.24	1342	.05	.21	1265	.06	.24
Spouse 1st quartile	2329	.37	.48	2647	.27	.44	1522	.34	.47	1769	.29	.45
Spouse 2nd quartile	2329	.12	.33	2647	.12	.33	1522	.15	.35	1769	.13	.34
Spouse 3rd quartile	2329	.11	.31	2647	.15	.36	1522	.10	.30	1769	.14	.35
Spouse 4th quartile	2329	.09	.28	2647	.17	.38	1522	.11	.31	1769	.15	.36
Belgium												
Employed	2458	.87	.34	2802	.74	.44	1517	.83	.37	1715	.77	.42
Unemployed	2458	.07	.25	2802	.08	.27	1517	.10	.30	1715	.08	.28
Inactive	2458	.07	.25	2802	.18	.39	1517	.07	.25	1715	.14	.35
Annual Earnings	2227	35.46	18.82	2140	25.38	13.26	1373	40.28	22.03	1387	30.77	17.25
Annual Hours	2152	2048	510	2001	1650	555	1332	2019	479	1301	1648	546
Log(hourly wage)	2150	2.64	.42	1962	2.54	.45	1332	2.69	.39	1292	2.63	.41
Age	2458	39.89	8.47	2802	39.97	8.61	1517	40.01	8.50	1715	39.95	8.74
Educ1	2373	.24	.43	2709	.22	.41	1502	.20	.40	1697	.18	.38
Educ2	2373	.37	.48	2709	.33	.47	1502	.34	.47	1697	.31	.46
Educ3	2373	.37	.48	2709	.43	.49	1502	.42	.49	1697	.48	.50
Experience	2443	18.38	9.94	2789	15.09	10.02	1497	16.50	9.86	1684	14.42	9.94
Temporary	2136	.05	.23	2046	.11	.31	1280	.07	.26	1309	.10	.30
Spouse 1st quartile	2458	.31	.46	2802	.25	.44	1517	.28	.45	1715	.25	.43
Spouse 2nd quartile	2458	.13	.34	2802	.14	.35	1517	.12	.33	1715	.14	.34
Spouse 3rd quartile	2458	.13	.33	2802	.16	.37	1517	.14	.34	1715	.15	.35
Spouse 4th quartile	2458	.12	.32	2802	.17	.37	1517	.12	.33	1715	.18	.38

Source: EU-SILC and authors' calculations. Note: The descriptive statistics refer to the base samples, aged 25-54, excluding the self-employed, those in the military, and those in full-time education. Description of variables: Employed, unemployed, and inactive are self-defined. Educ1=1 if less than upper secondary education. Educ2=1 if upper secondary education completed. Educ3=1 if higher education. Married=1 if living in a couple.

Table A.1: Descriptive Statistics of Samples Used

	2007						2012					
	Males			Females			Males			Females		
	N	M	SD	N	M	SD	N	M	SD	N	M	SD
Ireland												
Employed	1326	.85	.36	1820	.67	.47	1269	.71	.45	1661	.59	.49
Unemployed	1326	.11	.32	1820	.03	.17	1269	.27	.44	1661	.10	.29
Inactive	1326	.04	.19	1820	.30	.46	1269	.02	.14	1661	.31	.46
Annual Earnings	1184	44.67	35.96	1283	27.34	21.69	945	47.03	112.74	1049	31.75	32.40
Annual Hours	1145	2015	543	1202	1467	633	896	1897	608	1006	1514	630
Log(hourly wage)	1141	2.80	.56	1193	2.64	.62	884	2.83	.61	995	2.70	.63
Age	1326	41.00	8.33	1820	41.26	8.28	1269	39.69	8.10	1661	39.30	8.13
Educ1	1293	.34	.47	1790	.30	.46	1213	.23	.42	1608	.17	.38
Educ2	1293	.23	.42	1790	.25	.43	1213	.23	.42	1608	.23	.42
Educ3	1293	.35	.48	1790	.35	.48	1213	.50	.50	1608	.49	.50
Experience	1313	20.69	9.69	1786	15.89	9.03	1260	18.15	9.40	1654	14.21	8.96
Temporary	1121	.04	.21	1192	.08	.28	865	.07	.26	959	.08	.27
Spouse 1st quartile	1326	.36	.48	1820	.31	.46	1269	.41	.49	1661	.35	.48
Spouse 2nd quartile	1326	.11	.31	1820	.10	.30	1269	.11	.32	1661	.11	.31
Spouse 3rd quartile	1326	.09	.29	1820	.13	.33	1269	.12	.32	1661	.11	.32
Spouse 4th quartile	1326	.12	.32	1820	.14	.35	1269	.11	.32	1661	.13	.33
United Kingdom												
Employed	2825	.94	.23	3748	.81	.40	3655	.91	.29	4434	.78	.41
Unemployed	2825	.03	.17	3748	.02	.12	3655	.06	.23	4434	.04	.19
Inactive	2825	.03	.16	3748	.18	.38	3655	.04	.19	4434	.18	.39
Annual Earnings	2638	47.77	35.88	3030	28.00	21.33	3206	42.46	43.13	3331	26.46	23.67
Annual Hours	2601	2267	509	2910	1694	663	3255	2236	560	3387	1709	671
Log(hourly wage)	2570	2.81	.55	2836	2.56	.60	3108	2.50	.59	3185	2.32	.54
Age	2825	40.09	8.01	3748	40.05	8.14	3655	39.91	8.29	4434	40.01	8.30
Educ1	2736	.08	.26	3646	.09	.28	3418	.09	.28	4199	.08	.27
Educ2	2736	.55	.50	3646	.57	.50	3418	.45	.50	4199	.44	.50
Educ3	2736	.33	.47	3646	.32	.47	3418	.46	.50	4199	.48	.50
Experience	1674	19.56	9.64	2368	15.97	9.04	3650	19.06	9.77	4423	17.08	9.91
Temporary	2562	.03	.17	2868	.04	.19	3173	.03	.17	3311	.03	.18
Spouse 1st quartile	2825	.32	.47	3748	.29	.45	3655	.35	.48	4434	.30	.46
Spouse 2nd quartile	2825	.15	.35	3748	.15	.35	3655	.12	.33	4434	.14	.35
Spouse 3rd quartile	2825	.14	.34	3748	.14	.35	3655	.12	.33	4434	.15	.36
Spouse 4th quartile	2825	.13	.34	3748	.16	.36	3655	.13	.34	4434	.16	.37
Netherlands												
Employed	2315	.93	.25	2712	.80	.40	1394	.90	.30	1689	.78	.41
Unemployed	2315	.02	.13	2712	.04	.19	1394	.07	.26	1689	.08	.28
Inactive	2315	.05	.22	2712	.16	.37	1394	.02	.15	1689	.13	.34
Annual Earnings	2267	44.00	33.61	2393	24.12	14.97	1362	46.48	23.87	1506	28.36	18.44
Annual Hours	2048	1949	367	2145	1358	477	1307	1939	393	1398	1385	467
Log(hourly wage)	2046	2.92	.48	2139	2.68	.58	1307	2.90	.50	1398	2.76	.52
Age	2315	40.32	8.41	2712	39.96	8.28	1394	40.73	8.45	1689	40.66	8.36
Educ1	2278	.18	.38	2663	.20	.40	1378	.15	.36	1681	.17	.38
Educ2	2278	.37	.48	2663	.42	.49	1378	.36	.48	1681	.42	.49
Educ3	2278	.42	.49	2663	.33	.47	1378	.44	.50	1681	.38	.49
Experience	2304	17.77	9.76	2672	14.00	8.65	1378	18.01	9.22	1665	15.04	8.66
Temporary	2133	.12	.33	2220	.14	.35	1244	.12	.33	1358	.14	.35
Spouse 1st quartile	2315	.30	.46	2712	.19	.40	1394	.30	.46	1689	.21	.41
Spouse 2nd quartile	2315	.15	.36	2712	.17	.38	1394	.15	.36	1689	.16	.37
Spouse 3rd quartile	2315	.13	.34	2712	.18	.38	1394	.15	.35	1689	.19	.39
Spouse 4th quartile	2315	.14	.35	2712	.22	.42	1394	.11	.32	1689	.19	.40

Source: EU-SILC and authors' calculations. Note: The descriptive statistics refer to the base samples, aged 25-54, excluding the self-employed, those in the military, and those in full-time education. Description of variables: Employed, unemployed, and inactive are self-defined. Educ1=1 if less than upper secondary education. Educ2=1 if upper secondary education completed. Educ3=1 if higher education. Married=1 if living in a couple.

Table A.1: Descriptive Statistics of Samples Used

	2007						2012					
	Males			Females			Males			Females		
	N	M	SD	N	M	SD	N	M	SD	N	M	SD
France												
Employed	4121	.92	.28	4624	.82	.39	3426	.88	.32	3749	.82	.39
Unemployed	4121	.06	.24	4624	.07	.25	3426	.10	.29	3749	.08	.27
Inactive	4121	.02	.14	4624	.11	.32	3426	.02	.14	3749	.10	.30
Annual Earnings	3969	24.40	16.81	4098	16.64	10.53	3248	25.82	16.37	3375	18.48	11.63
Annual Hours	3783	2070	516	3732	1684	579	3086	2033	538	3025	1719	579
Log(hourly wage)	3779	2.25	.51	3704	2.09	.60	3084	2.27	.50	3022	2.11	.59
Age	4121	40.26	8.20	4624	40.50	8.31	3426	40.37	8.31	3749	40.69	8.33
Educ1	4117	.19	.39	4610	.22	.41	3415	.13	.34	3742	.14	.35
Educ2	4117	.49	.50	4610	.43	.50	3415	.52	.50	3742	.45	.50
Educ3	4117	.32	.47	4610	.35	.48	3415	.35	.48	3742	.40	.49
Experience	4105	19.08	9.91	4621	16.03	9.88	3410	19.16	9.66	3742	16.34	9.60
Temporary	3592	.10	.29	3644	.16	.36	2981	.11	.32	3032	.14	.35
Spouse 1st quartile	4121	.31	.46	4624	.25	.44	3426	.29	.45	3749	.24	.43
Spouse 2nd quartile	4121	.17	.37	4624	.16	.37	3426	.17	.37	3749	.17	.37
Spouse 3rd quartile	4121	.16	.36	4624	.18	.38	3426	.16	.37	3749	.17	.38
Spouse 4th quartile	4121	.15	.35	4624	.18	.39	3426	.14	.34	3749	.18	.39
Finland												
Employed	1128	.90	.30	1254	.86	.34	1299	.88	.33	1419	.83	.38
Unemployed	1128	.09	.29	1254	.04	.20	1299	.10	.31	1419	.05	.22
Inactive	1128	.01	.11	1254	.09	.29	1299	.02	.14	1419	.12	.33
Annual Earnings	1079	36.19	22.83	1176	25.69	14.12	1217	41.87	23.00	1317	31.86	17.59
Annual Hours	1017	1985	500	1035	1813	485	1125	1984	439	1125	1819	468
Log(hourly wage)	1005	2.74	.49	1031	2.54	.45	1114	2.78	.45	1120	2.66	.44
Age	1128	39.66	8.63	1254	40.00	8.65	1299	39.66	8.70	1419	40.11	8.58
Educ1	1116	.12	.32	1248	.11	.31	1282	.10	.30	1399	.05	.21
Educ2	1116	.49	.50	1248	.39	.49	1282	.48	.50	1399	.34	.47
Educ3	1116	.39	.49	1248	.50	.50	1282	.42	.49	1399	.60	.49
Experience	1071	16.59	9.84	1185	15.94	10.18	1273	16.93	9.79	1377	16.21	9.64
Temporary	1030	.11	.31	1072	.19	.39	1073	.08	.27	1059	.13	.33
Spouse 1st quartile	1128	.26	.44	1254	.21	.41	1299	.29	.46	1419	.21	.41
Spouse 2nd quartile	1128	.11	.32	1254	.14	.35	1299	.15	.36	1419	.14	.35
Spouse 3rd quartile	1128	.13	.34	1254	.16	.37	1299	.11	.31	1419	.15	.36
Spouse 4th quartile	1128	.13	.33	1254	.14	.35	1299	.11	.31	1419	.16	.36
Denmark												
Employed	1503	.98	.12	1762	.94	.23	565	.86	.35	636	.90	.30
Unemployed	1503	.01	.08	1762	.01	.12	565	.11	.31	636	.09	.28
Inactive	1503	.01	.09	1762	.04	.21	565	.03	.18	636	.02	.13
Annual Earnings	1434	47.98	26.57	1685	36.72	15.99	550	53.01	27.70	606	44.30	18.36
Annual Hours	1480	2064	409	1679	1829	362	535	1988	494	575	1799	381
Log(hourly wage)	1413	2.90	.69	1633	2.80	.61	528	3.01	.69	562	2.97	.38
Age	1503	40.07	8.17	1762	39.98	8.10	565	40.72	8.13	636	40.28	8.33
Educ1	1492	.19	.39	1753	.16	.37	557	.11	.31	628	.08	.27
Educ2	1492	.48	.50	1753	.41	.49	557	.50	.50	628	.43	.50
Educ3	1492	.34	.47	1753	.43	.49	557	.40	.49	628	.49	.50
Experience	1497	18.52	9.39	1758	16.05	9.52	561	19.15	10.13	629	17.44	10.06
Temporary	1431	.00	.00	1657	.00	.00	519	.08	.27	562	.05	.22
Spouse 1st quartile	1503	.19	.39	1762	.17	.37	565	.22	.41	636	.20	.40
Spouse 2nd quartile	1503	.15	.35	1762	.12	.33	565	.09	.29	636	.12	.32
Spouse 3rd quartile	1503	.12	.32	1762	.15	.36	565	.10	.29	636	.15	.35
Spouse 4th quartile	1503	.13	.33	1762	.19	.39	565	.12	.33	636	.19	.40

Source: EU-SILC and authors' calculations. Note: The descriptive statistics refer to the base samples, aged 25-54, excluding the self-employed, those in the military, and those in full-time education. Description of variables: Employed, unemployed, and inactive are self-defined. Educ1=1 if less than upper secondary education. Educ2=1 if upper secondary education completed. Educ3=1 if higher education. Married=1 if living in a couple.

Table A.1: Descriptive Statistics of Samples Used

	2007						2012					
	Males			Females			Males			Females		
	N	M	SD	N	M	SD	N	M	SD	N	M	SD
Norway												
Employed	1379	.97	.16	1222	.91	.28	1698	.96	.20	1770	.92	.28
Unemployed	1379	.01	.10	1222	.02	.12	1698	.02	.14	1770	.02	.15
Inactive	1379	.02	.13	1222	.07	.26	1698	.02	.14	1770	.06	.24
Annual Earnings	1337	58.85	111.68	1176	35.52	19.94	1640	77.84	64.33	1681	50.81	26.40
Annual Hours	1330	2107	451	1090	1764	511	1629	2113	407	1624	1843	464
Log(hourly wage)	1296	3.04	.71	1077	2.80	.69	1590	3.31	.58	1595	3.04	.59
Age	1379	39.59	8.14	1222	39.79	8.23	1698	41.38	8.15	1770	41.14	7.90
Educ1	1328	.17	.37	1180	.13	.34	1670	.10	.30	1738	.11	.31
Educ2	1328	.43	.50	1180	.35	.48	1670	.39	.49	1738	.30	.46
Educ3	1328	.37	.48	1180	.48	.50	1670	.45	.50	1738	.57	.49
Experience	1379	18.02	9.66	1222	15.98	9.25	960	19.94	8.99	822	17.47	9.03
Temporary	1279	.05	.21	1122	.10	.30	891	.04	.20	770	.09	.28
Spouse 1st quartile	1379	.21	.41	1222	.18	.38	1698	.29	.45	1770	.25	.43
Spouse 2nd quartile	1379	.13	.33	1222	.14	.34	1698	.17	.38	1770	.18	.39
Spouse 3rd quartile	1379	.11	.31	1222	.12	.32	1698	.18	.39	1770	.20	.40
Spouse 4th quartile	1379	.10	.30	1222	.16	.37	1698	.18	.38	1770	.22	.41

Source: EU-SILC and authors' calculations. Note: The descriptive statistics refer to the base samples, aged 25-54, excluding the self-employed, those in the military, and those in full-time education. Description of variables: Employed, unemployed, and inactive are self-defined. Educ1=1 if less than upper secondary education. Educ2=1 if upper secondary education completed. Educ3=1 if higher education. Married=1 if living in a couple.

Table A.2: LFP Rates by Education

	LFP Rate in 2007				Changes over 2007-2012			
	College		No college		College		No college	
	M	F	M	F	M	F	M	F
Southern Europe:								
Greece	.977	.681	.965	.567	.005	.011	-.024	.053
Italy	.946	.673	.944	.618	.043	.052	.025	.024
Spain	.977	.810	.964	.730	.002	.040	.025	.079
Portugal	.946	.835	.936	.788	-.005	.051	.039	.073
Mean	.962	.750	.952	.676	.011	.038	.016	.057
Rest of Europe:								
Austria	.962	.768	.944	.752	.009	-.013	.010	.022
Belgium	.950	.849	.914	.768	.009	.031	-.008	.039
Ireland	.973	.721	.965	.607	.016	-.067	.014	-.027
United Kingdom	.979	.816	.972	.797	-.002	-.005	-.019	-.025
Netherlands	.950	.853	.957	.815	.040	.029	.014	.020
France	.988	.886	.977	.856	.005	.006	-.004	.008
Finland	.988	.888	.987	.913	-.004	-.003	-.007	-.057
Denmark	.995	.955	.990	.952	-.004	.028	-.043	.024
Norway	.982	.921	.988	.933	-.002	.011	-.005	.015
Mean	.974	.851	.966	.821	.007	.002	-.005	.002

Source: EU-SILC and authors' calculations.

Table A.3: Employment Rates by Education

	Employment Rate in 2007				Changes over 2007-2012			
	College		No college		College		No college	
	M	F	M	F	M	F	M	F
Southern Europe:								
Greece	.977	.681	.965	.567	-.213	-.142	-.276	-.114
Italy	.946	.673	.944	.618	.009	.001	-.068	-.003
Spain	.977	.810	.964	.730	-.122	-.081	-.192	-.098
Portugal	.946	.835	.936	.788	-.074	-.009	-.088	-.025
Mean	.962	.750	.952	.676	-.100	-.058	-.156	-.060
Rest of Europe:								
Austria	.962	.768	.944	.752	.020	.001	-.003	.014
Belgium	.950	.849	.914	.768	-.038	.028	-.034	.022
Ireland	.973	.721	.965	.607	-.107	-.122	-.210	-.104
United Kingdom	.979	.816	.972	.797	-.008	-.014	-.065	-.057
Netherlands	.950	.853	.957	.815	.004	.003	-.059	-.038
France	.988	.886	.977	.856	-.011	.004	-.049	-.012
Finland	.988	.888	.987	.913	-.015	-.025	-.030	-.067
Denmark	.995	.955	.990	.952	-.144	-.003	-.114	-.086
Norway	.982	.921	.988	.933	-.017	.008	-.014	-.002
Mean	.974	.851	.966	.821	-.035	-.013	-.064	-.037

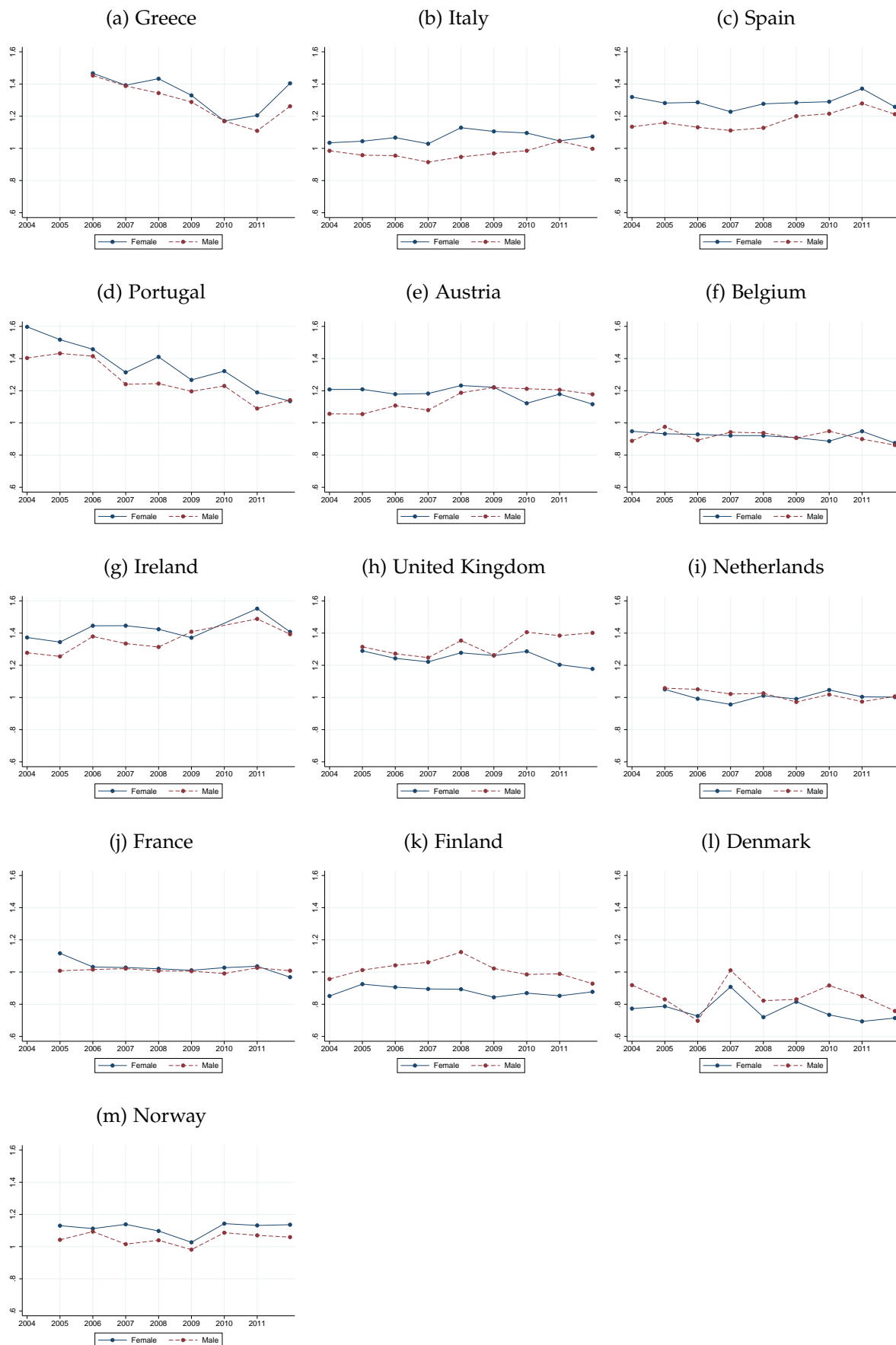
Source: EU-SILC and authors' calculations.

Table A.4: Median Wage Gaps under Imputation on Education and Experience - Probabilistic Model

	Levels in 2007				Changes over 2007-2012			
	Raw Wage Gap	True Wage Gap	Selection Bias		Raw Wage Gap	True Wage Gap	Selection Bias	
	Gap	Gap	M	F	Gap	Gap	M	F
Southern Europe:								
Greece	.182	.413	.016	.247	-.076	-.088	.067	.056
Italy	.035	.184	.014	.163	.053	.027	.013	-.013
Spain	.132	.207	.010	.085	-.027	-.026	.035	.036
Portugal	.172	.219	.012	.059	-.038	-.061	.016	-.007
Mean	.130	.256	.013	.138	-.022	-.037	.033	.018
Rest of Europe:								
Austria	.192	.266	.009	.084	.012	-.016	.001	-.027
Belgium	.074	.143	.021	.090	-.019	-.060	.000	-.041
Ireland	.170	.273	.042	.145	-.040	-.019	.037	.059
United Kingdom	.247	.262	.010	.025	-.065	-.040	.009	.035
Netherlands	.158	.175	.004	.021	-.054	-.044	.003	.012
France	.114	.144	.005	.035	.005	-.012	.009	-.008
Finland	.203	.200	.013	.010	-.072	-.066	.002	.008
Denmark	.116	.119	.000	.003	-.072	-.073	.007	.006
Norway	.154	.156	.002	.004	.027	.023	.004	.000
Mean	.158	.193	.012	.046	-.031	-.034	.008	.005

Source: EU-SILC and authors' calculations. Note: Selection bias = an increase in observed wage due to selection. Wage imputation rule: Impute wage $<(>)$ median with probability \hat{P}_i (respectively, $1 - \hat{P}_i$) if non-employed, where \hat{P}_i is the predicted probability of earning a wage below the gender-specific median, as estimated from a probit model including education dummies, experience and its square on an enlarged base sample with wage observations from other waves.

Figure 6: Cross-country wage inequality, 2007-2012.



Notes.— Wage inequality is measured by logarithm of the ratio between wages at 90th and 10th percentiles. Source: EU-SILC and authors' calculations.

Table A.5: Rate and Goodness of Imputation on Spousal Income

	2007						2012					
	Imputation Rate		Goodness Method 1		Goodness Method 2		Imputation Rate		Goodness Method 1		Goodness Method 2	
	M	F	M	F	M	F	M	F	M	F	M	F
Southern Europe:												
Greece	.27	.63	.56	.29	.55	.61	.30	.56	.56	.58	.57	.61
Italy	.30	.52	.64	.53	.55	.59	.32	.52	.73	.62	.54	.61
Spain	.32	.56	.74	.70	.62	.66	.35	.49	.65	.63	.62	.65
Portugal	.36	.62	.61	.59	.60	.62	.41	.50	.65	.55	.65	.65
Mean	.31	.58	.64	.53	.58	.62	.35	.52	.65	.59	.59	.63
Rest of Europe:												
Austria	.36	.53	.71	.69	.60	.67	.33	.50	.78	.60	.54	.60
Belgium	.30	.45	.86	.67	.56	.62	.27	.47	.78	.85	.62	.62
Ireland	.41	.53	.88	.53	.57	.60	.53	.55	.80	1.00	.56	.60
United Kingdom	.51	.59	.32	.69	.56	.60	.47	.57	.70	.58	.56	.61
Netherlands	.19	.47	1.00	.22	.49	.55	.29	.42	.57	.63	.55	.56
France	.35	.51	.52	.66	.63	.62	.31	.51	.63	.45	.58	.63
Finland	.23	.47	.73	.84	.61	.60	.26	.50	.72	.71	.61	.61
Denmark	.47	.39	1.00	.68	.60	.63	.16	.34	1.00	1.00	.68	.63
Norway	.25	.40	.74	.70	.62	.66	.42	.50	.65	.63	.62	.65
Mean	.34	.48	.75	.63	.58	.62	.34	.48	.74	.72	.59	.61

Source: EU-SILC and authors' calculations. Note: Wage imputation rule: Impute wage < median when non-employed and spouse income in bottom quartile; impute wage > median when non-employed and spouse income in top quartile. Imputation Rate = proportion of imputed wage observations in total non-employment. Goodness Method 1 = proportion of imputed wage observations on the same side of the median as wage observations from other waves in the panel. Goodness Method 2 = proportion of employed workers on the same side of the median as predicted by the imputation rule.

Table A.6: Median Wage Gaps under Imputation Based on Wages from Other Waves

	Levels in 2007				Changes over 2007-2012			
	Raw Wage Gap	Potential Wage Gap	Selection Bias		Raw Wage Gap	Potential Wage Gap	Selection Bias	
			M	F			M	F
Southern Europe:								
Greece	.182	.191	.010	.019	-.076	-.086	.018	.008
Italy	.035	.046	.008	.019	.053	.048	.011	.006
Spain	.132	.152	.003	.023	-.027	-.049	.024	.002
Portugal	.172	.173	.006	.008	-.038	-.049	.015	.004
Mean	.130	.141	.007	.017	-.022	-.034	.017	.005
Rest of Europe:								
Austria	.192	.211	.003	.023	.012	.003	.007	-.002
Belgium	.074	.078	.006	.010	-.019	-.026	.004	-.003
Ireland	.170	.184	.012	.026	-.040	-.055	.000	-.014
United Kingdom	.247	.253	.000	.006	-.065	-.080	.006	-.008
Netherlands	.158	.160	.005	.007	-.054	-.050	.002	.006
France	.114	.126	.004	.016	.005	-.007	.001	-.011
Finland	.203	.199	.011	.008	-.072	-.066	-.005	.002
Denmark	.116	.117	.001	.003	-.072	-.074	-.001	-.003
Norway	.154	.160	.002	.009	.027	.023	.003	-.001
Mean	.158	.165	.005	.012	-.031	-.037	.002	-.004

Source: EU-SILC and authors' calculations. Note: Selection bias = an increase in observed wage due to selection. Wage imputation rule: Impute wage from other waves when non-employed.

Table A.7: Rate of Imputation Based on Wages from Other Waves

	2007		2012	
	M	F	M	F
Southern Europe:				
Greece	.23	.11	.32	.17
Italy	.28	.14	.35	.16
Spain	.42	.26	.46	.30
Portugal	.60	.59	.62	.62
Mean	.38	.28	.44	.31
Rest of Europe:				
Austria	.31	.36	.33	.28
Belgium	.22	.14	.30	.16
Ireland	.18	.12	.09	.08
United Kingdom	.16	.17	.15	.14
Netherlands	.25	.16	.30	.20
France	.46	.43	.49	.34
Finland	.52	.48	.24	.36
Denmark	.47	.60	.23	.28
Norway	.55	.64	.32	.32
Mean	.35	.34	.27	.24

Source: EU-SILC and authors' calculations. Note: Wage imputation rule: Impute wage from other waves when non-employed. Imputation Rate = proportion of imputed wage observations in total nonemployment.

Table A.8: Quantile Regression Estimates Corrected for Selection

Quantile	Males			Females		
	20%	50%	80%	20%	50%	80%
Greece						
Change in Selection Bias	.105	.073	.026	.136	.080	.036
(Participation eqn: SPUnem)	-.023 (.019)	-.010 (.018)	.007 (.016)	.037 (.012)	.028 (.015)	.012 (.016)
(Copula)	-.494 [-.628,-.425]			-.638 [-.724,-.573]		
No. Observations	3805			4506		
Italy						
Change in Selection Bias	.019	.011	.006	-.058	-.023	-.017
(Participation eqn: SPUnem)	.017 (.023)	.012 (.021)	-.007 (.019)	.038 (.015)	.022 (.018)	.013 (.017)
(Copula)	-.076 [-.114,0.039]			-.462 [-.427,-.279]		
No. Observations	15944			17072		

Source: EU-SILC and authors' calculations. Note: Robust standard errors in parenthesis, confidence intervals in square brackets. Other covariates in the Participation eqn. are described in the main text. Confidence intervals of the estimate of the Frank copula parameter based on subsampling (subsample size 1000, 500 replications). Matlab code at: https://drive.google.com/file/d/0B13ohL0_ULTDaDE2N0d1ZnEzZ1U/view