

1 **Supplementary File**

2 **Table 2. Marginal effects of fathers on parental leave and the marital status variable in 2011**

Marital status	Margin	Std. Error	p-value	Significance	95% CI
Not married - not working	0.938	0.0055	0.000	***	[0.927, 0.949]
Married not working	0.823	0.0066	0.000	***	[0.810, 0.836]
Widowed not working	0.803	0.0472	0.000	***	[0.710, 0.895]
Divorced not working	0.839	0.0185	0.000	***	[0.803, 0.876]
Unmarried - working	0.062	0.0055	0.000	***	[0.051, 0.073]
Married - working	0.177	0.0066	0.000	***	[0.164, 0.190]
Widowed - working	0.197	0.0472	0.000	***	[0.105, 0.290]
Divorced - working	0.161	0.0185	0.000	***	[0.124, 0.197]

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4 **Table 3 Marginal effects of fathers on parental leave and the marital status variable in 2022**

Marital status	Margin	Std. Error	p-value	Significance	95% CI
Not married - GYES	0.311	0.0064	0.000	***	[0.298-0.323]
Married - GYES	0.058	0.0019	0.000	***	[0.054-0.062]
Widowed - GYES	0.159	0.0276	0.000	***	[0.105-0.213]
Divorced - GYES	0.112	0.0088	0.000	***	[0.095-0.130]
Registered partnership - GYES	0.250	0.1530	0.103		[-0.050-0.550]

Divorced in partnership – GYES	~0	0.0007	0.999		[-0.001–0.001]
Not married – GYED Extra	0.612	0.0067	0.000	***	[0.599–0.626]
Married – GYED Extra	0.883	0.0026	0.000	***	[0.878–0.888]
Widowed – GYED Extra	0.699	0.0346	0.000	***	[0.631–0.767]
Divorced – GYED Extra	0.821	0.0107	0.000	***	[0.800–0.842]
Registered partnership – GYED Extra	0.375	0.1712	0.028	*	[0.040–0.711]
Divorced in partnership – GYED Extra	1.000	0.0009	0.000	***	[0.998–1.002]
Not married – GYED Home	0.077	0.0037	0.000	***	[0.070–0.084]
Married – GYED Home	0.059	0.0019	0.000	***	[0.055–0.062]
Widowed – GYED Home	0.142	0.0263	0.000	***	[0.090–0.194]
Divorced – GYED Home	0.067	0.0070	0.000	***	[0.053–0.080]
Registered partnership – GYED Home	0.375	0.1712	0.028	*	[0.040–0.711]
Divorced in partnership – GYED Home	~0	0.0005	1.000		[-0.001–0.001]

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6 **Table 4 Marginal effects of fathers on parental leave and the education level variable in 2011**

Education Level	Margin	Std. Error	p-value	Significance	95% CI
Primary – Not working	0.970	0.0039	0.000	***	[0.962–0.977]
Vocational – Not working	0.857	0.0082	0.000	***	[0.841–0.873]

Secondary - Not working	0.783	0.0122	0.000	***	[0.759-0.807]
College/University - Not working	0.727	0.0155	0.000	***	[0.697-0.757]
Primary - Working	0.030	0.0039	0.000	***	[0.023-0.038]
Vocational - Working	0.143	0.0082	0.000	***	[0.127-0.159]
Secondary - Working	0.217	0.0122	0.000	***	[0.193-0.241]
College/University - Working	0.273	0.0155	0.000	***	[0.243-0.303]

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8 **Table 5 Marginal effects of fathers on parental leave and the education level variable in 2022**

Education Level	Margin	Std. Error	p-value	Significance	95% CI
Primary - GYES	0.260	0.0074	0.000	***	[0.245-0.274]
Vocational - GYES	0.200	0.0051	0.000	***	[0.190-0.210]
Secondary - GYES	0.059	0.0028	0.000	***	[0.053-0.064]
College/University - GYES	0.027	0.0022	0.000	***	[0.023-0.032]
Primary - GYED Extra	0.633	0.0082	0.000	***	[0.617-0.649]
Vocational - GYED Extra	0.732	0.0057	0.000	***	[0.721-0.744]
Secondary - GYED Extra	0.884	0.0039	0.000	***	[0.877-0.892]
College/University - GYED Extra	0.931	0.0034	0.000	***	[0.925-0.938]
Primary - GYED Home	0.107	0.0052	0.000	***	[0.097-0.118]

Vocational – GYED Home	0.068	0.0032	0.000	***	[0.062–0.074]
Secondary – GYED Home	0.057	0.0028	0.000	***	[0.052–0.063]
College/University – GYED Home	0.041	0.0027	0.000	***	[0.036–0.047]

9 **Table 6 Marginal effects of fathers on parental leave and the region variable in 2011**

Region	Margin	Std. Error	p-value	Significance	95% CI
Advanced – Not working	0.817	0.0099	0.000	***	[0.798–0.836]
Disadvantaged – Not working	0.925	0.0081	0.000	***	[0.909–0.941]
Advanced – Working	0.183	0.0099	0.000	***	[0.164–0.202]
Disadvantaged – Working	0.075	0.0081	0.000	***	[0.059–0.091]
Spouse of head of household – GYED Home	0.058	0.0151	0.000	***	[0.029–0.088]
The son of the head of household – GYED Home	0.036	0.0050	0.000	***	[0.026–0.046]

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11 **Table 7 Marginal effects of fathers on parental leave and the region variable in 2022**

Region	Margin	Std. Error	p-value	Significance	95% CI
Advanced – GYES	0.104	0.0037	0.000	***	[0.097–0.111]
Disadvantaged – GYES	0.162	0.0058	0.000	***	[0.151–0.173]
Advanced – GYED Extra	0.832	0.0045	0.000	***	[0.823–0.841]
Disadvantaged – GYED Extra	0.768	0.0066	0.000	***	[0.755–0.781]
Advanced – GYED Home	0.064	0.0030	0.000	***	[0.058–0.069]

Disadvantaged – GYED Home	0.070	0.0040	0.000	***	[0.063–0.078]
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13 **Table 8 Marginal effects of fathers on parental leave and the household position variable in 2011**

Household Position	Margin	Std. Error	p-value	Significance	95% CI
Other person living with head – Not working	0.854	0.0265	0.000	***	[0.802–0.906]
Head of household, male – Not working	0.861	0.0047	0.000	***	[0.852–0.870]
Spouse of head of household – Not working	0.909	0.0500	0.000	***	[0.811–1.007]
The son of the head of household – Not working	0.946	0.0236	0.000	***	[0.899–0.992]
Ascending relative – Not working	1.000	0.0014	0.000	***	[0.997–1.003]
Other person living with head – Working	0.146	0.0265	0.000	***	[0.094–0.198]
Head of household, male – Working	0.139	0.0047	0.000	***	[0.130–0.148]
Spouse of head of household – Working	0.091	0.0500	0.069		[-0.007–0.189]
The son of the head of household – Working	0.054	0.0236	0.021	*	[0.008–0.101]
Ascending relative – Working	~0	0.0014	0.998		[-0.003–0.003]

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15 **Table 9 Marginal effects of fathers on parental leave and the household position variable in 2022**

Household Position	Margin	Std. Error	p-value	Significance	95% CI
Other person living with head – GYES	0.112	0.0069	0.000	***	[0.098–0.125]
Head of household, male – GYES	0.051	0.0017	0.000	***	[0.048–0.054]

The husband of the head of household - GYES	0.995	0.0038	0.000	***	[0.987-1.002]
Spouse of head of household - GYES	0.880	0.0210	0.000	***	[0.839-0.921]
The son of the head of household - GYES	0.654	0.0128	0.000	***	[0.629-0.679]
Other person living with head - GYED Extra	0.810	0.0085	0.000	***	[0.793-0.827]
Head of household, male - GYED Extra	0.883	0.0024	0.000	***	[0.878-0.888]
The husband of the head of household - GYED Extra	~0	0.000006	0.998		[-0.0012-0.0012]
Spouse of head of household - GYED Extra	0.062	0.0156	0.000	***	[0.032-0.093]
The son of the head of household - GYED Extra	0.310	0.0125	0.000	***	[0.285-0.334]
Other person living with head - GYED Home	0.078	0.0058	0.000	***	[0.067-0.090]
Head of household, male - GYED Home	0.066	0.0019	0.000	***	[0.063-0.070]
The husband of the head of household - GYED Home	0.005	0.0038	0.156		[-0.002-0.013]
Spouse of head of household - GYED Home	0.058	0.0151	0.000	***	[0.029-0.088]
The son of the head of household - GYED Home	0.036	0.0050	0.000	***	[0.026-0.046]

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17 **Table 10 Marginal effects of fathers on parental leave and the employment status variable in 2011**

Employment Status	Margin	Std. Error	p-value	Significance	95% CI
Employee - Not working	0.846	0.0059	0.000	***	[0.834-0.858]
Self-employed (individual) - Not working	0.758	0.0208	0.000	***	[0.717-0.798]

Self-employed (company) – Not working	0.764	0.0237	0.000	***	[0.718–0.810]
Cooperative member – Not working	0.769	0.1169	0.000	***	[0.540–0.998]
Occasional worker – Not working	0.756	0.0375	0.000	***	[0.682–0.829]
Public works – Not working	0.998	0.0025	0.000	***	[0.993–1.002]
Contributing family member – Not working	0.806	0.0660	0.000	***	[0.676–0.935]
Employee – Working	0.154	0.0059	0.000	***	[0.142–0.166]
Self-employed (individual) – Working	0.242	0.0208	0.000	***	[0.202–0.283]
Self-employed (company) – Working	0.236	0.0237	0.000	***	[0.190–0.282]
Cooperative member – Working	0.231	0.1169	0.048	*	[0.002–0.460]
Occasional worker – Working	0.244	0.0375	0.000	***	[0.171–0.318]
Public works – Working	0.002	0.0025	0.317		[-0.002–0.007]
Contributing family member – Working	0.194	0.0660	0.003	**	[0.065–0.324]

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19 **Table 11 Marginal effects of fathers on parental leave and the employment status variable in 2022**

Employment Status	Margin	Std. Error	p-value	Significance	95% CI
Employee – GYES	0.053	0.0017	0.000	***	[0.050–0.056]
Self-employed (individual) – GYES	0.062	0.0064	0.000	***	[0.049–0.075]
Self-employed (company) – GYES	0.007	0.0034	0.045	*	[0.000–0.013]

Cooperative member – GYES	0.235	0.0727	0.001	**	[0.093–0.378]
Occasional worker – GYES	0.182	0.0178	0.000	***	[0.147–0.217]
Public works – GYES	0.350	0.0273	0.000	***	[0.296–0.403]
Contributing family member – GYES	0.120	0.0205	0.000	***	[0.079–0.160]
Employee – GYED Extra	0.883	0.0024	0.000	***	[0.879–0.888]
Self-employed (individual) – GYED Extra	0.889	0.0083	0.000	***	[0.873–0.906]
Self-employed (company) – GYED Extra	0.933	0.0103	0.000	***	[0.913–0.953]
Cooperative member – GYED Extra	0.647	0.0820	0.000	***	[0.486–0.808]
Occasional worker – GYED Extra	0.678	0.0215	0.000	***	[0.636–0.720]
Public works – GYED Extra	0.549	0.0284	0.000	***	[0.493–0.605]
Contributing family member – GYED Extra	0.514	0.0315	0.000	***	[0.452–0.576]
Employee – GYED Home	0.064	0.0019	0.000	***	[0.060–0.067]
Self-employed (individual) – GYED Home	0.049	0.0057	0.000	***	[0.037–0.060]
Self-employed (company) – GYED Home	0.061	0.0098	0.000	***	[0.041–0.080]
Cooperative member – GYED Home	0.118	0.0553	0.033	*	[0.009–0.226]
Occasional worker – GYED Home	0.140	0.0160	0.000	***	[0.109–0.171]
Public works – GYED Home	0.101	0.0172	0.000	***	[0.067–0.135]

Contributing family member – GYED Home	0.367	0.0304	0.000	***	[0.307– 0.426]
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