**Supplementary material:**

**Table 4-7 with very low literacy skills in interaction**

Table 4b: Associations between very low literacy skills, ALMPs, and labour market participation

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Unemployment | | | | Out of labour force | | | |
|  | ALMP | PES | Training | Emp inc | ALMP | PES | Training | Emp inc |
|  |  |  |  |  |  |  |  |  |
| Low literacy | 1.105 | 1.130 | 1.408\*\* | 1.156 | 1.481\*\*\* | 1.601\*\*\* | 1.566\*\*\* | 1.435\*\*\* |
|  | (0.191) | (0.198) | (0.223) | (0.166) | (0.207) | (0.235) | (0.181) | (0.169) |
| ALMP total | 0.998 |  |  |  | 1.000 |  |  |  |
|  | (0.003) |  |  |  | (0.00172) |  |  |  |
| Low literacy\*spending | 1.011\*\* | 1.042\* | 0.999 | 1.043\*\* | 1.004 | 0.999 | 1.003 | 1.026 |
|  | (0.005) | (0.0253) | (0.013) | (0.019) | (0.00463) | (0.021) | (0.008) | (0.017) |
| PES + admin |  | 0.991 | 0.994 | 0.994 |  | 1.000 | 1.000 | 1.000 |
|  |  | (0.0106) | (0.0104) | (0.010) |  | (0.006) | (0.006) | (0.006) |
| Training |  | 1.005 | 1.006 | 1.005 |  | 0.999 | 0.999 | 0.999 |
|  |  | (0.00353) | (0.004) | (0.004) |  | (0.002) | (0.002) | (0.002) |
| Priv. sec. emp. inc. |  | 0.998 | 1.001 | 0.991 |  | 0.992 | 0.992 | 0.988 |
|  |  | (0.0114) | (0.012) | (0.012) |  | (0.010) | (0.009) | (0.009) |
|  |  |  |  |  |  |  |  |  |
| Age | 0.968\*\*\* | 0.968\*\*\* | 0.968\*\*\* | 0.968\*\*\* | 1.008\*\*\* | 1.008\*\*\* | 1.008\*\*\* | 1.008\*\*\* |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) |
| Male | 0.827\*\*\* | 0.827\*\*\* | 0.827\*\*\* | 0.827\*\*\* | 0.537\*\*\* | 0.537\*\*\* | 0.537\*\*\* | 0.537\*\*\* |
|  | (0.020) | (0.020) | (0.020) | (0.020) | (0.007) | (0.007) | (0.007) | (0.007) |
| Primary educ | 2.147\*\*\* | 2.151\*\*\* | 2.149\*\*\* | 2.150\*\*\* | 4.264\*\*\* | 4.265\*\*\* | 4.265\*\*\* | 4.264\*\*\* |
|  | (0.123) | (0.123) | (0.123) | (0.123) | (0.126) | (0.126) | (0.126) | (0.126) |
| Mediu educ | 2.045\*\*\* | 2.045\*\*\* | 2.045\*\*\* | 2.046\*\*\* | 3.384\*\*\* | 3.384\*\*\* | 3.384\*\*\* | 3.384\*\*\* |
|  | (0.064) | (0.064) | (0.064) | (0.064) | (0.057) | (0.057) | (0.057) | (0.057) |
| Parents educ | 0.818\*\*\* | 0.818\*\*\* | 0.818\*\*\* | 0.818\*\*\* | 0.985 | 0.985 | 0.985 | 0.985 |
|  | (0.024) | (0.024) | (0.024) | (0.024) | (0.016) | (0.016) | (0.016) | (0.016) |
| Partner | 0.516\*\*\* | 0.516\*\*\* | 0.516\*\*\* | 0.516\*\*\* | 0.500\*\*\* | 0.500\*\*\* | 0.500\*\*\* | 0.500\*\*\* |
|  | (0.013) | (0.013) | (0.013) | (0.013) | (0.007) | (0.007) | (0.007) | (0.007) |
| Migrant 1st gen. | 1.698\*\*\* | 1.696\*\*\* | 1.699\*\*\* | 1.694\*\*\* | 1.135\*\*\* | 1.136\*\*\* | 1.135\*\*\* | 1.135\*\*\* |
|  | (0.064) | (0.064) | (0.064) | (0.064) | (0.028) | (0.028) | (0.028) | (0.028) |
| Migrant 2nd gen. | 1.654\*\*\* | 1.652\*\*\* | 1.653\*\*\* | 1.653\*\*\* | 1.084\* | 1.084\* | 1.084\* | 1.084\* |
|  | (0.113) | (0.113) | (0.113) | (0.113) | (0.049) | (0.049) | (0.049) | (0.049) |
| Migrant one parent | 1.107\*\* | 1.107\*\* | 1.106\*\* | 1.107\*\* | 1.063\*\* | 1.063\*\* | 1.063\*\* | 1.063\*\* |
|  | (0.055) | (0.055) | (0.055) | (0.055) | (0.030) | (0.030) | (0.030) | (0.030) |
| Unemp. Rate | 1.073\*\*\* | 1.072\*\*\* | 1.071\*\*\* | 1.071\*\*\* | 1.016 | 1.016 | 1.016 | 1.016 |
|  | (0.012) | (0.013) | (0.012) | (0.012) | (0.010) | (0.010) | (0.010) | (0.010) |
| Tot. social spend. | 0.990 | 0.989 | 0.991 | 0.991 | 0.988 | 0.991 | 0.991 | 0.991 |
|  | (0.015) | (0.015) | (0.015) | (0.015) | (0.015) | (0.015) | (0.014) | (0.014) |
|  |  |  |  |  |  |  |  |  |
| Random slope low literacy skills | 1.271\*\* | 1.261\*\* | 1.343\*\* | 1.241\*\* | 1.234\*\*\* | 1.271\*\*\* | 1.258\*\*\* | 1.216\*\*\* |
|  | (0.131) | (0.127) | (0.160) | (0.120) | (0.094) | (0.113) | (0.101) | (0.083) |
| Country-level variance | 1.121\*\*\* | 1.125\*\*\* | 1.131\*\*\* | 1.126\*\*\* | 1.121\*\*\* | 1.116\*\*\* | 1.116\*\*\* | 1.115\*\*\* |
|  | (0.041) | (0.043) | (0.046) | (0.043) | (0.040) | (0.0378) | (0.038) | (0.037) |
| Intercept-slope covariance | 0.929 | 0.934 | 0.909 | 0.929 | 0.951 | 0.953 | 0.955 | 0.959 |
|  | (0.047) | (0.048) | (0.056) | (0.046) | (0.037) | (0.0391) | (0.0375) | (0.034) |
|  |  |  |  |  |  |  |  |  |
| Constant | 0.252\*\*\* | 0.258\*\*\* | 0.238\*\*\* | 0.250\*\*\* | 0.418\*\*\* | 0.404\*\*\* | 0.407\*\*\* | 0.412\*\*\* |
|  | (0.083) | (0.088) | (0.080) | (0.084) | (0.139) | (0.134) | (0.134) | (0.134) |
|  |  |  |  |  |  |  |  |  |
| Individuals | 103,354 | 103,354 | 103,354 | 103,354 | 131,447 | 131,447 | 131,447 | 131,447 |
| Countries | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

Odds ratios (SE in parentheses)

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 5b: Associations between very low literacy skills, ALMPs, and quality of life

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Poor health | | | | Job dissatisfaction | | | |
|  | ALMP | PES | Training | Emp inc | ALMP | PES | Training | Emp inc |
|  |  |  |  |  |  |  |  |  |
| Low literacy | 1.833\*\*\* | 1.951\*\*\* | 2.103\*\*\* | 2.023\*\*\* | 1.329\* | 1.340\*\* | 1.364\*\* | 1.172 |
|  | (0.194) | (0.215) | (0.208) | (0.195) | (0.197) | (0.196) | (0.177) | (0.152) |
| ALMP total | 0.997 |  |  |  | 0.997 |  |  |  |
|  | (0.003) |  |  |  | (0.003) |  |  |  |
| Low literacy\*spending | 1.007\*\* | 1.018 | 1.002 | 1.011 | 0.997 | 0.987 | 0.985 | 1.018 |
|  | (0.003) | (0.016) | (0.009) | (0.013) | (0.005) | (0.022) | (0.015) | (0.017) |
| PES + admin |  | 0.984 | 0.987 | 0.987 |  | 0.992 | 0.992 | 0.991 |
|  |  | (0.012) | (0.012) | (0.012) |  | (0.012) | (0.012) | (0.012) |
| Training |  | 1.002 | 1.002 | 1.002 |  | 0.984\*\*\* | 0.985\*\*\* | 0.984\*\*\* |
|  |  | (0.004) | (0.004) | (0.004) |  | (0.005) | (0.005) | (0.005) |
| Priv. sec. emp. inc. |  | 1.011 | 1.012 | 1.008 |  | 0.991 | 0.990 | 0.986 |
|  |  | (0.011) | (0.011) | (0.012) |  | (0.012) | (0.012) | (0.012) |
|  |  |  |  |  |  |  |  |  |
| Age | 1.048\*\*\* | 1.048\*\*\* | 1.048\*\*\* | 1.048\*\*\* | 0.994\*\*\* | 0.994\*\*\* | 0.994\*\*\* | 0.994\*\*\* |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) |
| Male | 1.088\*\*\* | 1.088\*\*\* | 1.087\*\*\* | 1.088\*\*\* | 1.066\*\* | 1.066\*\* | 1.066\*\* | 1.066\*\* |
|  | (0.033) | (0.033) | (0.033) | (0.033) | (0.030) | (0.030) | (0.030) | (0.030) |
| Primary educ | 1.949\*\*\* | 1.951\*\*\* | 1.953\*\*\* | 1.951\*\*\* | 1.262\*\*\* | 1.258\*\*\* | 1.256\*\*\* | 1.259\*\*\* |
|  | (0.098) | (0.098) | (0.098) | (0.098) | (0.095) | (0.095) | (0.095) | (0.095) |
| Mediu educ | 1.522\*\*\* | 1.521\*\*\* | 1.521\*\*\* | 1.521\*\*\* | 1.137\*\*\* | 1.136\*\*\* | 1.135\*\*\* | 1.136\*\*\* |
|  | (0.056) | (0.056) | (0.056) | (0.056) | (0.050) | (0.050) | (0.050) | (0.050) |
| Parents educ | 0.798\*\*\* | 0.798\*\*\* | 0.798\*\*\* | 0.798\*\*\* | 0.949 | 0.950 | 0.949 | 0.949 |
|  | (0.028) | (0.028) | (0.028) | (0.028) | (0.033) | (0.033) | (0.033) | (0.033) |
| Partner | 0.725\*\*\* | 0.725\*\*\* | 0.725\*\*\* | 0.725\*\*\* | 0.872\*\*\* | 0.872\*\*\* | 0.872\*\*\* | 0.872\*\*\* |
|  | (0.023) | (0.023) | (0.023) | (0.023) | (0.027) | (0.027) | (0.027) | (0.027) |
| Unemployed | 2.118\*\*\* | 2.119\*\*\* | 2.120\*\*\* | 2.118\*\*\* |  |  |  |  |
|  | (0.146) | (0.146) | (0.147) | (0.146) |  |  |  |  |
| Out of lab. force | 3.930\*\*\* | 3.931\*\*\* | 3.932\*\*\* | 3.931\*\*\* |  |  |  |  |
|  | (0.140) | (0.140) | (0.140) | (0.140) |  |  |  |  |
| Public sector | 0.748\*\*\* | 0.747\*\*\* | 0.747\*\*\* | 0.747\*\*\* |  |  |  |  |
|  | (0.047) | (0.047) | (0.047) | (0.047) |  |  |  |  |
| Non-prof sector | 0.998 | 0.998 | 0.998 | 0.998 |  |  |  |  |
|  | (0.139) | (0.139) | (0.139) | (0.139) |  |  |  |  |
| Migrant 1st gen. | 1.200\*\*\* | 1.202\*\*\* | 1.206\*\*\* | 1.203\*\*\* | 1.352\*\*\* | 1.359\*\*\* | 1.360\*\*\* | 1.353\*\*\* |
|  | (0.061) | (0.061) | (0.061) | (0.061) | (0.065) | (0.065) | (0.065) | (0.065) |
| Migrant 2nd gen. | 1.207\* | 1.209\* | 1.210\* | 1.209\* | 1.387\*\*\* | 1.390\*\*\* | 1.389\*\*\* | 1.388\*\*\* |
|  | (0.118) | (0.118) | (0.118) | (0.118) | (0.122) | (0.122) | (0.122) | (0.122) |
| Migrant one parent | 1.125\* | 1.125\* | 1.125\* | 1.126\* | 1.139\*\* | 1.140\*\* | 1.140\*\* | 1.141\*\* |
|  | (0.071) | (0.071) | (0.071) | (0.071) | (0.068) | (0.068) | (0.068) | (0.068) |
| Unemp. Rate | 0.966\*\*\* | 0.965\*\*\* | 0.965\*\*\* | 0.965\*\*\* | 1.010 | 1.009 | 1.009 | 1.009 |
|  | (0.011) | (0.011) | (0.011) | (0.011) | (0.012) | (0.012) | (0.012) | (0.012) |
| Tot. social spend. | 0.968\*\* | 0.967\*\* | 0.969\*\* | 0.969\*\* | 0.982 | 0.991 | 0.991 | 0.991 |
|  | (0.014) | (0.014) | (0.014) | (0.014) | (0.015) | (0.015) | (0.015) | (0.015) |
|  |  |  |  |  |  |  |  |  |
| Random slope low literacy skills | 1.073\* | 1.079\* | 1.092\* | 1.082\* | 1.077 | 1.073 | 1.068 | 1.071 |
|  | (0.041) | (0.045) | (0.050) | (0.047) | (0.077) | (0.076) | (0.072) | (0.069) |
| Country-level variance | 1.110\*\*\* | 1.107\*\*\* | 1.110\*\*\* | 1.108\*\*\* | 1.124\*\*\* | 1.119\*\*\* | 1.117\*\*\* | 1.114\*\*\* |
|  | (0.036) | (0.036) | (0.038) | (0.036) | (0.044) | (0.040) | (0.040) | (0.038) |
| Intercept-slope covariance | 0.962 | 0.961 | 0.953 | 0.957 | 0.941 | 0.943 | 0.951 | 0.955 |
|  | (0.028) | (0.029) | (0.032) | (0.029) | (0.041) | (0.040) | (0.039) | (0.039) |
|  |  |  |  |  |  |  |  |  |
| Constant | 0.00771\*\*\* | 0.00757\*\*\* | 0.00720\*\*\* | 0.00729\*\*\* | 0.109\*\*\* | 0.1000\*\*\* | 0.0991\*\*\* | 0.102\*\*\* |
|  | (0.003) | (0.003) | (0.002) | (0.002) | (0.037) | (0.034) | (0.034) | (0.036) |
| Individuals | 139,425 | 139,425 | 139,425 | 139,425 | 94,762 | 94,762 | 94,762 | 94,762 |
| Countries | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

Odds ratios (SE in parentheses)

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 6b: Associations between very low literacy skills, ALMPs, and digital participation

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Low e-mail use | | | | Low internet use | | | |
|  | ALMP | PES | Training | Emp inc | ALMP | PES | Training | Emp inc |
|  |  |  |  |  |  |  |  |  |
| Low literacy | 4.020\*\*\* | 3.440\*\*\* | 3.621\*\*\* | 4.008\*\*\* | 2.708\*\*\* | 2.510\*\*\* | 2.648\*\*\* | 2.626\*\*\* |
|  | (0.569) | (0.493) | (0.408) | (0.481) | (0.358) | (0.335) | (0.298) | (0.310) |
| ALMP total | 0.997 |  |  |  | 1.001 |  |  |  |
|  | (0.002) |  |  |  | (0.002) |  |  |  |
| Low literacy\*spending | 0.994 | 1.007 | 0.997 | 0.971\* | 0.997 | 1.003 | 0.994 | 0.992 |
|  | (0.005) | (0.021) | (0.008) | (0.016) | (0.004) | (0.018) | (0.008) | (0.015) |
| PES + admin |  | 1.002 | 1.002 | 1.002 |  | 0.993 | 0.993 | 0.993 |
|  |  | (0.006) | (0.006) | (0.006) |  | (0.005) | (0.005) | (0.005) |
| Training |  | 0.994\*\*\* | 0.994\*\* | 0.994\*\*\* |  | 0.990\*\*\* | 0.990\*\*\* | 0.990\*\*\* |
|  |  | (0.002) | (0.002) | (0.002) |  | (0.002) | (0.002) | (0.002) |
| Priv. sec. emp. inc. |  | 1.000 | 1.000 | 1.001 |  | 1.002 | 1.002 | 1.000 |
|  |  | (0.013) | (0.013) | (0.012) |  | (0.009) | (0.009) | (0.010) |
|  |  |  |  |  |  |  |  |  |
| Age | 1.048\*\*\* | 1.048\*\*\* | 1.048\*\*\* | 1.048\*\*\* | 1.035\*\*\* | 1.035\*\*\* | 1.035\*\*\* | 1.035\*\*\* |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) |
| Male | 1.052\*\*\* | 1.052\*\*\* | 1.052\*\*\* | 1.052\*\*\* | 0.961\*\*\* | 0.961\*\*\* | 0.961\*\*\* | 0.961\*\*\* |
|  | (0.014) | (0.014) | (0.014) | (0.014) | (0.012) | (0.012) | (0.012) | (0.012) |
| Primary educ | 5.349\*\*\* | 5.350\*\*\* | 5.350\*\*\* | 5.351\*\*\* | 4.137\*\*\* | 4.137\*\*\* | 4.136\*\*\* | 4.137\*\*\* |
|  | (0.190) | (0.190) | (0.190) | (0.190) | (0.139) | (0.139) | (0.139) | (0.139) |
| Medium educ | 2.840\*\*\* | 2.839\*\*\* | 2.839\*\*\* | 2.839\*\*\* | 2.230\*\*\* | 2.230\*\*\* | 2.230\*\*\* | 2.230\*\*\* |
|  | (0.052) | (0.052) | (0.052) | (0.052) | (0.037) | (0.037) | (0.037) | (0.037) |
| Parents educ | 0.493\*\*\* | 0.493\*\*\* | 0.493\*\*\* | 0.493\*\*\* | 0.600\*\*\* | 0.600\*\*\* | 0.600\*\*\* | 0.601\*\*\* |
|  | (0.008) | (0.008) | (0.008) | (0.008) | (0.009) | (0.009) | (0.009) | (0.008) |
| Partner | 0.961\*\*\* | 0.961\*\*\* | 0.961\*\*\* | 0.961\*\*\* | 0.859\*\*\* | 0.859\*\*\* | 0.859\*\*\* | 0.859\*\*\* |
|  | (0.014) | (0.014) | (0.014) | (0.014) | (0.012) | (0.012) | (0.012) | (0.012) |
| Unemployed | 0.907\*\*\* | 0.907\*\*\* | 0.907\*\*\* | 0.907\*\*\* | 0.896\*\*\* | 0.896\*\*\* | 0.896\*\*\* | 0.896\*\*\* |
|  | (0.027) | (0.027) | (0.027) | (0.027) | (0.024) | (0.024) | (0.024) | (0.024) |
| Out of lab. force | 1.140\*\*\* | 1.140\*\*\* | 1.140\*\*\* | 1.140\*\*\* | 1.098\*\*\* | 1.098\*\*\* | 1.098\*\*\* | 1.098\*\*\* |
|  | (0.019) | (0.019) | (0.019) | (0.019) | (0.017) | (0.017) | (0.017) | (0.017) |
| Public sector | 0.654\*\*\* | 0.654\*\*\* | 0.654\*\*\* | 0.654\*\*\* | 0.779\*\*\* | 0.779\*\*\* | 0.779\*\*\* | 0.779\*\*\* |
|  | (0.013) | (0.013) | (0.013) | (0.013) | (0.014) | (0.014) | (0.014) | (0.014) |
| Non-prof sector | 0.614\*\*\* | 0.614\*\*\* | 0.614\*\*\* | 0.614\*\*\* | 0.775\*\*\* | 0.775\*\*\* | 0.776\*\*\* | 0.775\*\*\* |
|  | (0.033) | (0.033) | (0.033) | (0.033) | (0.035) | (0.035) | (0.035) | (0.035) |
| Migrant 1st gen. | 0.979 | 0.979 | 0.980 | 0.981 | 0.825\*\*\* | 0.827\*\*\* | 0.827\*\*\* | 0.827\*\*\* |
|  | (0.024) | (0.024) | (0.024) | (0.024) | (0.018) | (0.018) | (0.018) | (0.018) |
| Migrant 2nd gen. | 0.908\*\* | 0.908\*\* | 0.908\*\* | 0.908\*\* | 0.786\*\*\* | 0.787\*\*\* | 0.787\*\*\* | 0.787\*\*\* |
|  | (0.042) | (0.042) | (0.042) | (0.042) | (0.032) | (0.032) | (0.032) | (0.032) |
| Migrant one parent | 0.906\*\*\* | 0.907\*\*\* | 0.907\*\*\* | 0.907\*\*\* | 0.917\*\*\* | 0.918\*\*\* | 0.918\*\*\* | 0.918\*\*\* |
|  | (0.027) | (0.027) | (0.027) | (0.027) | (0.024) | (0.024) | (0.024) | (0.024) |
| Unemp. Rate | 0.989 | 0.998 | 0.998 | 0.996 | 0.991 | 0.990 | 0.990 | 0.990 |
|  | (0.013) | (0.013) | (0.013) | (0.013) | (0.010) | (0.010) | (0.010) | (0.010) |
| Tot. social spend. | 0.944\*\* | 0.936\*\* | 0.936\*\* | 0.940\*\* | 0.961\*\* | 0.972\* | 0.971\* | 0.972\* |
|  | (0.024) | (0.024) | (0.0244) | (0.025) | (0.016) | (0.016) | (0.016) | (0.016) |
|  |  |  |  |  |  |  |  |  |
| Random slope low literacy skills | 1.210\*\*\* | 1.218\*\*\* | 1.212\*\*\* | 1.200\*\*\* | 1.216\*\* | 1.223\*\* | 1.215\*\* | 1.213\*\* |
|  | (0.082) | (0.087) | (0.084) | (0.078) | (0.098) | (0.099) | (0.094) | (0.093) |
| Country-level variance | 1.393\*\*\* | 1.411\*\*\* | 1.412\*\*\* | 1.421\*\*\* | 1.182\*\*\* | 1.164\*\*\* | 1.164\*\*\* | 1.163\*\*\* |
|  | (0.141) | (0.148) | (0.148) | (0.153) | (0.058) | (0.051) | (0.052) | (0.051) |
| Intercept-slope covariance | 0.962 | 1.013 | 1.001 | 0.966 | 1.093 | 1.079 | 1.081 | 1.072 |
|  | (0.065) | (0.074) | (0.064) | (0.064) | (0.062) | (0.057) | (0.056) | (0.055) |
|  |  |  |  |  |  |  |  |  |
| Constant | 0.332\* | 0.358\* | 0.356\* | 0.334\* | 0.572 | 0.487\* | 0.505\* | 0.495\* |
|  | (0.194) | (0.209) | (0.209) | (0.200) | (0.219) | (0.180) | (0.186) | (0.184) |
| Individuals | 139,448 | 139,448 | 139,448 | 139,448 | 139,444 | 139,444 | 139,444 | 139,444 |
| Countries | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

Odds ratios (SE in parentheses)

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table 7b: Associations between very low literacy skills, ALMPs, and lifelong learning

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Formal education | | | | Informal education | | | | On-the-job training | | | |
|  | ALMP | PES | Training | Emp inc | ALMP | PES | Training | Emp inc | ALMP | PES | Training | Emp inc |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Low literacy | 0.330\*\*\* | 0.335\*\*\* | 0.374\*\*\* | 0.385\*\*\* | 0.518\*\*\* | 0.522\*\*\* | 0.603\*\*\* | 0.571\*\*\* | 0.557\*\*\* | 0.583\*\*\* | 0.532\*\*\* | 0.533\*\*\* |
|  | (0.077) | (0.074) | (0.090) | (0.0768) | (0.065) | (0.064) | (0.063) | (0.063) | (0.068) | (0.072) | (0.058) | (0.058) |
| ALMP total | 1.004 |  |  |  | 1.005\*\*\* |  |  |  | 1.002 |  |  |  |
|  | (0.003) |  |  |  | (0.002) |  |  |  | (0.002) |  |  |  |
| Low literacy\*spending | 1.017\*\*\* | 1.086\*\*\* | 1.039\*\* | 1.056\*\*\* | 1.008\*\* | 1.034\*\* | 1.003 | 1.016 | 0.999 | 0.988 | 1.005 | 1.006 |
|  | (0.006) | (0.026) | (0.017) | (0.017) | (0.004) | (0.017) | (0.009) | (0.013) | (0.004) | (0.017) | (0.010) | (0.014) |
| PES + admin |  | 1.004 | 1.004 | 1.004 |  | 0.997 | 0.998 | 0.998 |  | 1.001 | 1.001 | 1.001 |
|  |  | (0.010) | (0.010) | (0.010) |  | (0.005) | (0.005) | (0.005) |  | (0.006) | (0.006) | (0.006) |
| Training |  | 1.003 | 1.003 | 1.003 |  | 0.999 | 0.999 | 0.999 |  | 0.994\*\*\* | 0.993\*\*\* | 0.994\*\*\* |
|  |  | (0.003) | (0.003) | (0.003) |  | (0.002) | (0.002) | (0.002) |  | (0.002) | (0.002) | (0.002) |
| Priv. sec. emp. inc. |  | 1.021 | 1.019 | 1.020 |  | 1.042\*\*\* | 1.042\*\*\* | 1.042\*\*\* |  | 1.004 | 1.004 | 1.004 |
|  |  | (0.017) | (0.019) | (0.016) |  | (0.011) | (0.011) | (0.011) |  | (0.012) | (0.012) | (0.012) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age | 0.919\*\*\* | 0.919\*\*\* | 0.919\*\*\* | 0.919\*\*\* | 0.994\*\*\* | 0.994\*\*\* | 0.994\*\*\* | 0.994\*\*\* | 0.987\*\*\* | 0.987\*\*\* | 0.987\*\*\* | 0.987\*\*\* |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) |
| Male | 0.976 | 0.976 | 0.976 | 0.977 | 0.897\*\*\* | 0.897\*\*\* | 0.897\*\*\* | 0.897\*\*\* | 1.084\*\*\* | 1.084\*\*\* | 1.084\*\*\* | 1.084\*\*\* |
|  | (0.026) | (0.026) | (0.026) | (0.026) | (0.013) | (0.013) | (0.013) | (0.013) | (0.017) | (0.017) | (0.017) | (0.017) |
| Primary educ | 0.388\*\*\* | 0.389\*\*\* | 0.390\*\*\* | 0.388\*\*\* | 0.270\*\*\* | 0.271\*\*\* | 0.271\*\*\* | 0.270\*\*\* | 0.373\*\*\* | 0.373\*\*\* | 0.373\*\*\* | 0.373\*\*\* |
|  | (0.042) | (0.043) | (0.043) | (0.042) | (0.014) | (0.014) | (0.014) | (0.014) | (0.021) | (0.021) | (0.021) | (0.021) |
| Medium educ | 0.488\*\*\* | 0.488\*\*\* | 0.488\*\*\* | 0.488\*\*\* | 0.403\*\*\* | 0.403\*\*\* | 0.403\*\*\* | 0.403\*\*\* | 0.565\*\*\* | 0.564\*\*\* | 0.564\*\*\* | 0.564\*\*\* |
|  | (0.026) | (0.026) | (0.026) | (0.026) | (0.010) | (0.010) | (0.010) | (0.010) | (0.016) | (0.016) | (0.016) | (0.016) |
| Parents educ | 1.482\*\*\* | 1.482\*\*\* | 1.482\*\*\* | 1.481\*\*\* | 1.582\*\*\* | 1.581\*\*\* | 1.581\*\*\* | 1.581\*\*\* | 1.212\*\*\* | 1.212\*\*\* | 1.212\*\*\* | 1.212\*\*\* |
|  | (0.049) | (0.049) | (0.049) | (0.049) | (0.025) | (0.025) | (0.025) | (0.025) | (0.022) | (0.022) | (0.021) | (0.022) |
| Partner | 0.636\*\*\* | 0.637\*\*\* | 0.636\*\*\* | 0.636\*\*\* | 1.058\*\*\* | 1.058\*\*\* | 1.058\*\*\* | 1.058\*\*\* | 1.121\*\*\* | 1.121\*\*\* | 1.121\*\*\* | 1.121\*\*\* |
|  | (0.017) | (0.017) | (0.017) | (0.017) | (0.016) | (0.016) | (0.016) | (0.016) | (0.019) | (0.019) | (0.019) | (0.019) |
| Unemployed | 1.444\*\*\* | 1.445\*\*\* | 1.444\*\*\* | 1.444\*\*\* | 0.809\*\*\* | 0.809\*\*\* | 0.810\*\*\* | 0.809\*\*\* |  |  |  |  |
|  | (0.078) | (0.078) | (0.078) | (0.078) | (0.027) | (0.027) | (0.027) | (0.027) |  |  |  |  |
| Out of lab. force | 2.616\*\*\* | 2.618\*\*\* | 2.617\*\*\* | 2.617\*\*\* | 0.428\*\*\* | 0.428\*\*\* | 0.428\*\*\* | 0.428\*\*\* |  |  |  |  |
|  | (0.092) | (0.092) | (0.092) | (0.092) | (0.010) | (0.009) | (0.009) | (0.009) |  |  |  |  |
| Public sector | 1.995\*\*\* | 1.996\*\*\* | 1.995\*\*\* | 1.995\*\*\* | 1.885\*\*\* | 1.885\*\*\* | 1.885\*\*\* | 1.885\*\*\* | 2.367\*\*\* | 2.368\*\*\* | 2.367\*\*\* | 2.367\*\*\* |
|  | (0.063) | (0.063) | (0.063) | (0.063) | (0.033) | (0.033) | (0.033) | (0.033) | (0.041) | (0.041) | (0.041) | (0.041) |
| Non-prof sector | 2.660\*\*\* | 2.659\*\*\* | 2.660\*\*\* | 2.659\*\*\* | 2.398\*\*\* | 2.397\*\*\* | 2.398\*\*\* | 2.398\*\*\* | 1.848\*\*\* | 1.848\*\*\* | 1.848\*\*\* | 1.848\*\*\* |
|  | (0.189) | (0.189) | (0.189) | (0.189) | (0.107) | (0.107) | (0.107) | (0.107) | (0.081) | (0.081) | (0.081) | (0.081) |
| Migrant 1st gen. | 1.254\*\*\* | 1.253\*\*\* | 1.253\*\*\* | 1.253\*\*\* | 0.878\*\*\* | 0.879\*\*\* | 0.880\*\*\* | 0.879\*\*\* | 0.745\*\*\* | 0.747\*\*\* | 0.746\*\*\* | 0.746\*\*\* |
|  | (0.049) | (0.049) | (0.049) | (0.049) | (0.021) | (0.021) | (0.021) | (0.021) | (0.020) | (0.020) | (0.020) | (0.020) |
| Migrant 2nd gen. | 0.855\* | 0.854\* | 0.854\* | 0.855\* | 1.037 | 1.037 | 1.037 | 1.038 | 1.031 | 1.032 | 1.031 | 1.031 |
|  | (0.077) | (0.077) | (0.077) | (0.077) | (0.049) | (0.049) | (0.049) | (0.049) | (0.053) | (0.053) | (0.053) | (0.053) |
| Migrant one parent | 1.086 | 1.085 | 1.085 | 1.085 | 1.076\*\* | 1.076\*\* | 1.076\*\* | 1.076\*\* | 0.985 | 0.986 | 0.986 | 0.986 |
|  | (0.055) | (0.055) | (0.055) | (0.055) | (0.031) | (0.031) | (0.031) | (0.031) | (0.032) | (0.032) | (0.032) | (0.032) |
| Unemp. Rate | 0.995 | 0.993 | 0.992 | 0.993 | 0.977\* | 0.972\*\* | 0.971\*\* | 0.971\*\* | 0.989 | 0.989 | 0.989 | 0.989 |
|  | (0.017) | (0.017) | (0.017) | (0.017) | (0.012) | (0.012) | (0.012) | (0.012) | (0.014) | (0.014) | (0.014) | (0.014) |
| Tot. social spend. | 1.007 | 1.006 | 1.005 | 1.004 | 0.998 | 0.997 | 0.996 | 0.996 | 0.997 | 1.003 | 1.003 | 1.003 |
|  | (0.025) | (0.025) | (0.026) | (0.027) | (0.019) | (0.019) | (0.020) | (0.020) | (0.021) | (0.022) | (0.022) | (0.022) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Random slope low literacy skills | 1.188 | 1.112 | 1.394\* | 1.119 | 1.102\* | 1.096\* | 1.118\* | 1.112\* | 1.073\* | 1.067\* | 1.074\* | 1.074\* |
|  | (0.144) | (0.101) | (0.277) | (0.153) | (0.057) | (0.054) | (0.069) | (0.064) | (0.044) | (0.042) | (0.044) | (0.044) |
| Country-level variance | 1.349\*\*\* | 1.356\*\*\* | 1.357\*\*\* | 1.355\*\*\* | 1.210\*\*\* | 1.208\*\*\* | 1.207\*\*\* | 1.207\*\*\* | 1.257\*\*\* | 1.269\*\*\* | 1.269\*\*\* | 1.269\*\*\* |
|  | (0.121) | (0.121) | (0.122) | (0.121) | (0.068) | (0.066) | (0.066) | (0.066) | (0.087) | (0.092) | (0.092) | (0.092) |
| Intercept-slope covariance | 1.021 | 1.007 | 1.035 | 1.033 | 0.990 | 0.995 | 1.003 | 1.010 | 1.006 | 1.013 | 1.005 | 1.007 |
|  | (0.119) | (0.113) | (0.167) | (0.129) | (0.042) | (0.041) | (0.047) | (0.045) | (0.046) | (0.048) | (0.048) | (0.048) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Constant | 1.101 | 1.111 | 1.157 | 1.172 | 0.664 | 0.683 | 0.694 | 0.707 | 0.859 | 0.811 | 0.813 | 0.809 |
|  | (0.632) | (0.637) | (0.695) | (0.716) | (0.293) | (0.300) | (0.318) | (0.320) | (0.415) | (0.398) | (0.404) | (0.402) |
| Individuals | 113,059 | 113,059 | 113,059 | 113,059 | 113,165 | 113,165 | 113,165 | 113,165 | 83,040 | 83,040 | 83,040 | 83,040 |
| Countries | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

Odds ratios (SE in parentheses)

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1