**Online Appendix**

***Table A1***. Impact of international migration on household members’ attitudes towards public goods (panel FE regression; this estimates replicates Table 3 with the inclusion of lagged control variables)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | (1) | (2) | (3) | (4) |
| *Variables* | *social benefits misuse* | *tax avoidance* | *ticket avoidance* | *public good* |
| **Migrants in HH (dummy)** | **0.134\*** | **0.150\*\*** | **0.121\*** | **0.124\*\*** |
|  | (0.070) | (0.070) | (0.070) | (0.062) |
| Household size\_lag1 | 0.017 | -0.003 | -0.010 | 0.005 |
|  | (0.017) | (0.017) | (0.016) | (0.015) |
| Married (dummy)\_lag1 | -0.064 | -0.026 | -0.099\*\* | -0.058 |
|  | (0.047) | (0.048) | (0.046) | (0.042) |
| Age\_lag1 | 0.037 | 0.058\*\*\* | 0.055\*\* | 0.052\*\* |
|  | (0.024) | (0.022) | (0.023) | (0.021) |
| Age squared\_lag1 | -.0003\*\*\* | -.0001 | -.0002\*\* | -.0002\*\* |
|  | (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| Primary education or lower (dummy)\_lag1 | -0.135\*\* | -0.159\*\* | -0.095 | -0.119\* |
|  | (0.067) | (0.068) | (0.065) | (0.061) |
| Tertiary education (dummy)\_lag1 | 0.0087 | 0.069 | 0.093 | 0.030 |
|  | (0.068) | (0.068) | (0.066) | (0.060) |
| Currently employed (dummy)\_lag1 | -0.062\* | -0.039 | -0.035 | -0.042 |
|  | (0.034) | (0.033) | (0.033) | (0.031) |
| Household income (ln of)\_lag1 | -0.035 | -0.010 | -0.003 | -0.014 |
|  | (0.024) | (0.025) | (0.024) | (0.022) |
| Constant | 1.917\* | -0.285 | 0.263 | 0.516 |
|  | (1.129) | (0.983) | (1.060) | (1.001) |
| *Observations* | 36,342 | 36,226 | 36,411 | 34,838 |
| *R-squared* | 0.008 | 0.008 | 0.008 | 0.010 |
| *Fixed Effects (Voivokdeship by year / survey wave)* | YES | YES | YES | YES |
|  |  |  |  |  |

Robust standard errors clustered at the houshold level in parentheses \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

**Table A2**. Attrition bias test. Probit model on the exit of the household from the longitudinal survey.

|  |  |
| --- | --- |
|  | (1) |
| Dependent variable equal 1 if the HH is not observed in the next wave | Probit |
|  |  |
| **Migrants in HH (dummy)** | **-0.0789** |
|  | **(0.0646)** |
| Household size | -0.0262 |
|  | (0.0239) |
| Married (dummy) | 0.00673 |
|  | (0.0206) |
| Age | -0.0114 |
|  | (0.00775) |
| Age squared | 0.000127 |
|  | (0.000124) |
| Primary education or lower (dummy) | -0.0365 |
|  | (0.0764) |
| Tertiary education (dummy) | -0.00715 |
|  | (0.0239) |
| Currently employed (dummy) | 0.0460 |
|  | (0.0450) |
| HH income (ln of) | 0.0550 |
|  | (0.0976) |
| Constant | -0.810 |
|  | (0.685) |
|  |  |
| Observations | 45,516 |
| **Pseudo R2** | **0.07** |
| Voivodeship by year and wave FE | YES |

Robust standard errors clustered at the household level in parentheses

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

***Table A3***. Impact of international migration on household members’ attitudes towards public goods (panel FE regression; only households observed in two waves)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | (1) | (2) | (3) | (4) |
| VARIABLES | *social benefits misuse* | *tax avoidance* | *ticket avoidance* | *public good* |
| *Individuals in HH observed only in 2 waves* |  |  |  |  |
|  |  |  |  |  |
| **Migrants in HH (dummy)** | 0.281\*\* | 0.186 | 0.0921 | 0.239\*\* |
|  | (0.118) | (0.114) | (0.109) | (0.108) |
|  |  |  |  |  |
| Observations | 12,493 | 12,444 | 12,550 | 11,888 |
| R-squared | 0.022 | 0.019 | 0.019 | 0.022 |
| Other controls + Voivodeship by year FE + wave FE | YES | YES | YES | YES |

Robust standard errors clustered at the household level in parentheses

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

***Table A4***. Immigrants destinations and household members’ attitudes towards public goods (panel FE regression)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | | (2) | | (3) | | (4) | |
|  | *social benefits misuse* | | *tax avoidance* | | *ticket avoidance* | | *public good* | |
|  |  | |  | |  | |  | |
| **Migrants in HH (dummy)** | 0.154\* | | 0.197\*\* | | 0.183\*\* | | 0.186\*\* | |
|  | (0.0932) | | (0.0956) | | (0.0911) | | (0.0816) | |
| Destination: Germany | -0.0809 | | -0.0501 | | -0.151 | | -0.154 | |
|  | (0.115) | | (0.114) | | (0.110) | | (0.101) | |
| Destination: UK | -0.122 | | -0.179 | | -0.0358 | | -0.131 | |
|  | (0.125) | | (0.129) | | (0.131) | | (0.120) | |
| Destination: Netherlands | 0.104 | | 0.0514 | | -0.189 | | -0.00603 | |
|  | (0.122) | | (0.147) | | (0.138) | | (0.120) | |
| Destination: Italy | -0.105 | | 0.291 | | 0.327 | | 0.225 | |
|  | (0.200) | | (0.201) | | (0.200) | | (0.167) | |
| Destination: Ireland | 0.198 | | 0.0356 | | 0.0345 | | 0.0337 | |
|  | (0.228) | | (0.251) | | (0.258) | | (0.236) | |
| Destination: France | -0.214 | | -0.374\*\* | | -0.176 | | -0.316\*\* | |
|  | (0.183) | | (0.150) | | (0.169) | | (0.147) | |
| Destination: Other countries | 0.010 | | -0.163 | | -0.205\* | | -0.118 | |
|  | (0.114) | | (0.112) | | (0.109) | | (0.100) | |
| Household size | -0.0208\*\* | | -0.0223\*\* | | -0.0250\*\*\* | | -0.0195\*\* | |
|  | (0.00962) | | (0.00929) | | (0.00944) | | (0.00854) | |
| Married (dummy) | 0.0497 | | 0.0965\*\*\* | | 0.0585\* | | 0.0591\* | |
|  | (0.0335) | | (0.0331) | | (0.0328) | | (0.0303) | |
| Age | 0.0337\*\* | | 0.0289\* | | 0.0462\*\*\* | | 0.0322\*\* | |
|  | (0.0154) | | (0.0150) | | (0.0145) | | (0.0136) | |
| Age squared | -0.000228\*\*\* | | -6.09e-05 | | -0.000185\*\*\* | | -0.000149\*\* | |
|  | (7.15e-05) | | (7.05e-05) | | (6.65e-05) | | (6.41e-05) | |
| Primary education or lower (dummy) | -0.0193 | | -0.00839 | | -0.0127 | | -0.0133 | |
|  | (0.0504) | | (0.0481) | | (0.0466) | | (0.0449) | |
| Tertiary education (dummy) | -0.0321 | | 0.0289 | | -0.00405 | | -0.00139 | |
|  | (0.0475) | | (0.0466) | | (0.0459) | | (0.0421) | |
| Currently employed (dummy) | 0.0253 | | 0.0335 | | -0.0133 | | 0.0210 | |
|  | (0.0229) | | (0.0221) | | (0.0215) | | (0.0201) | |
| Household income (ln of) | -0.00673 | | -0.0135 | | -0.0146 | | -0.0131 | |
|  | (0.0102) | | (0.0101) | | (0.00968) | | (0.00912) | |
| Constant | 1.553\*\* | | 1.032 | | 0.535 | | 1.226\* | |
|  | (0.759) | | (0.744) | | (0.718) | | (0.674) | |
| *Observations* | *59,829* | | *59,613* | | *60,049* | | *57,105* | |
| *R-squared* | *0.007* | | *0.011* | | *0.010* | | *0.011* | |
| *Voivodeship by year FE + wave FE* | | *YES* | | *YES* | | *YES* | | *YES* | |

Note: migrants’ destinations are distributed as follows: Germany 30,7%, UK 22,1%, the Netherlands 10.4%, Italy 5,2%, France 4,8%, Ireland 4,3%, Others 22,6%. Robust standard errors clustered at the household level in parentheses, \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

***Table A5***. **Table 4** in the manuscript with full results. **Role of the migrant in the household**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | | (2) | | (3) | | (4) | |
| *Role of the migrant in the household* | *social benefits misuse* | | *tax avoidance* | | *ticket avoidance* | | *public good* | |
|  |  | |  | |  | |  | |
| Head of HH is migrant (dummy) | 0.0663 | | 0.0361 | | 0.0484 | | 0.0315 | |
|  | (0.102) | | (0.102) | | (0.101) | | (0.0915) | |
| Partner of the head of HH is migrant (dummy) | -0.0622 | | 0.0284 | | -0.0628 | | -0.0662 | |
|  | (0.126) | | (0.113) | | (0.109) | | (0.104) | |
| Other HH member is migrant (dummy) | 0.120\*\*\* | | 0.0974\*\* | | 0.0712\* | | 0.0869\*\* | |
|  | (0.0412) | | (0.0427) | | (0.0424) | | (0.0374) | |
| Household size | -0.0211\*\* | | -0.0226\*\* | | -0.0253\*\*\* | | -0.0197\*\* | |
|  | (0.00959) | | (0.00928) | | (0.00942) | | (0.00853) | |
| Married (dummy) | 0.0501 | | 0.0974\*\*\* | | 0.0595\* | | 0.0599\*\* | |
|  | (0.0335) | | (0.0331) | | (0.0328) | | (0.0303) | |
| Age | 0.0337\*\* | | 0.0294\* | | 0.0460\*\*\* | | 0.0323\*\* | |
|  | (0.0154) | | (0.0150) | | (0.0145) | | (0.0136) | |
| Age squared | -0.000229\*\*\* | | -6.36e-05 | | -0.000185\*\*\* | | -0.000151\*\* | |
|  | (7.16e-05) | | (7.05e-05) | | (6.66e-05) | | (6.41e-05) | |
| Primary education or lower (dummy) | -0.0198 | | -0.00859 | | -0.0117 | | -0.0134 | |
|  | (0.0504) | | (0.0480) | | (0.0466) | | (0.0449) | |
| Tertiary education (dummy) | -0.0324 | | 0.0296 | | -0.00354 | | -0.000726 | |
|  | (0.0475) | | (0.0467) | | (0.0460) | | (0.0421) | |
| Currently employed (dummy) | 0.0253 | | 0.0329 | | -0.0131 | | 0.0205 | |
|  | (0.0229) | | (0.0221) | | (0.0215) | | (0.0201) | |
| Household income (ln of) | -0.00681 | | -0.0132 | | -0.0148 | | -0.0131 | |
|  | (0.0102) | | (0.0101) | | (0.00968) | | (0.00913) | |
| Constant | 1.561\*\* | | 1.017 | | 0.556 | | 1.232\* | |
|  | (0.759) | | (0.742) | | (0.719) | | (0.674) | |
|  |  | |  | |  | |  | |
| *Observations* | *59,829* | | *59,613* | | *60,049* | | *57,105* | |
| *R-squared* | *0.007* | | *0.010* | | *0.009* | | *0.011* | |
| *Voivodeship by year FE + wave FE* | | *YES* | | *YES* | | *YES* | | *YES* | |

Robust standard errors clustered at the household level in parentheses, \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

***Table A6***. **Table 4** in the manuscript with full results. **Educational level of the migrant**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | | (2) | | (3) | | (4) | |
| *Role of the migrant in the household* | *social benefits misuse* | | *tax avoidance* | | *ticket avoidance* | | *public good* | |
|  |  | |  | |  | |  | |
| Migrant in the HH has primary or lower educational level (dummy) | 0.0159 | | -0.0161 | | 0.0684 | | 0.0132 | |
|  | (0.133) | | (0.155) | | (0.131) | | (0.118) | |
| Migrant in the HH has primary or lower educational level (dummy) | 0.109\*\* | | 0.118\*\* | | 0.0267 | | 0.0685 | |
|  | (0.0500) | | (0.0524) | | (0.0507) | | (0.0455) | |
| Migrant in the HH has primary or lower educational level (dummy) | 0.166 | | 0.0823 | | 0.182\* | | 0.133 | |
|  | (0.108) | | (0.103) | | (0.101) | | (0.0993) | |
| Household size | -0.0210\*\* | | -0.0226\*\* | | -0.0250\*\*\* | | -0.0196\*\* | |
|  | (0.00960) | | (0.00929) | | (0.00942) | | (0.00853) | |
| Married (dummy) | 0.0495 | | 0.0971\*\*\* | | 0.0591\* | | 0.0594\* | |
|  | (0.0335) | | (0.0331) | | (0.0328) | | (0.0303) | |
| Age | 0.0337\*\* | | 0.0292\* | | 0.0463\*\*\* | | 0.0323\*\* | |
|  | (0.0154) | | (0.0150) | | (0.0145) | | (0.0136) | |
| Age squared | -0.000228\*\*\* | | -6.18e-05 | | -0.000185\*\*\* | | -0.000149\*\* | |
|  | (7.15e-05) | | (7.05e-05) | | (6.65e-05) | | (6.41e-05) | |
| Primary education or lower (dummy) | -0.0195 | | -0.00786 | | -0.0121 | | -0.0132 | |
|  | (0.0504) | | (0.0481) | | (0.0466) | | (0.0449) | |
| Tertiary education (dummy) | -0.0328 | | 0.0293 | | -0.00449 | | -0.00111 | |
|  | (0.0475) | | (0.0466) | | (0.0460) | | (0.0421) | |
| Currently employed (dummy) | 0.0248 | | 0.0327 | | -0.0134 | | 0.0203 | |
|  | (0.0229) | | (0.0221) | | (0.0215) | | (0.0201) | |
| Household income (ln of) | -0.00664 | | -0.0132 | | -0.0145 | | -0.0129 | |
|  | (0.0102) | | (0.0101) | | (0.00967) | | (0.00912) | |
| Constant | 1.555\*\* | | 1.022 | | 0.540 | | 1.226\* | |
|  | (0.758) | | (0.742) | | (0.718) | | (0.674) | |
|  |  | |  | |  | |  | |
| *Observations* | 59,829 | | 59,613 | | 60,049 | | 57,105 | |
| *R-squared* | 0.007 | | 0.011 | | 0.009 | | 0.011 | |
| *Voivodeship by year FE + wave FE* | | *YES* | | *YES* | | *YES* | | *YES* | |

Robust standard errors clustered at the household level in parentheses, \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

***Table A7***. **Table 4** in the manuscript with full results. **Gender of migrants**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | | (2) | | (3) | | (4) | |
| *Role of the migrant in the household* | *social benefits misuse* | | *tax avoidance* | | *ticket avoidance* | | *public good* | |
|  |  | |  | |  | |  | |
| Migrants in HH are male only (dummy) | 0.135\*\* | | 0.167\*\*\* | | 0.0883 | | 0.121\*\* | |
|  | (0.0559) | | (0.0582) | | (0.0566) | | (0.0497) | |
| Migrants in HH are female only (dummy) | 0.0401 | | 0.0112 | | 0.0360 | | 0.0104 | |
|  | (0.0827) | | (0.0813) | | (0.0787) | | (0.0776) | |
| Household size | -0.0213\*\* | | -0.0217\*\* | | -0.0243\*\* | | -0.0193\*\* | |
|  | (0.00963) | | (0.00932) | | (0.00946) | | (0.00857) | |
| Married (dummy) | 0.0495 | | 0.0970\*\*\* | | 0.0586\* | | 0.0594\* | |
|  | (0.0336) | | (0.0331) | | (0.0328) | | (0.0304) | |
| Age | 0.0345\*\* | | 0.0297\*\* | | 0.0474\*\*\* | | 0.0328\*\* | |
|  | (0.0154) | | (0.0150) | | (0.0145) | | (0.0136) | |
| Age squared | -0.000228\*\*\* | | -6.20e-05 | | -0.000184\*\*\* | | -0.000149\*\* | |
|  | (7.15e-05) | | (7.05e-05) | | (6.66e-05) | | (6.41e-05) | |
| Primary education or lower (dummy) | -0.0198 | | -0.00878 | | -0.0116 | | -0.0132 | |
|  | (0.0504) | | (0.0480) | | (0.0466) | | (0.0449) | |
| Tertiary education (dummy) | -0.0307 | | 0.0293 | | -0.00405 | | -0.000173 | |
|  | (0.0476) | | (0.0468) | | (0.0461) | | (0.0423) | |
| Currently employed (dummy) | 0.0268 | | 0.0342 | | -0.0127 | | 0.0215 | |
|  | (0.0230) | | (0.0222) | | (0.0216) | | (0.0202) | |
| Household income (ln of) | -0.00664 | | -0.0137 | | -0.0150 | | -0.0133 | |
|  | (0.0102) | | (0.0101) | | (0.00969) | | (0.00913) | |
| Constant | 1.511\*\* | | 0.998 | | 0.472 | | 1.197\* | |
|  | (0.760) | | (0.743) | | (0.719) | | (0.675) | |
|  |  | |  | |  | |  | |
| *Observations* | 59,560 | | 59,351 | | 59,781 | | 56,855 | |
| *R-squared* | 0.007 | | 0.011 | | 0.009 | | 0.011 | |
| *Voivodeship by year FE + wave FE* | | *YES* | | *YES* | | *YES* | | *YES* | |

The estimates exclude households with more than 1 member abroad. Robust standard errors clustered at the household level in parentheses, \*\*\* p<0.01, \*\* p<0.05, \* p<0.1