Descriptive statistics and regressions of 2D:4D and educational attainment based on RLMS data

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We document the descriptive statistics and detailed regression outputs for educational attainment and measured 2D:4D ratios, based on the RLMS data (20th round, conducted in 2011–2012). Regression analysis is conducted using STATA 13, gologit2 which is a special code for the generalized ordered logit regression in STATA environment. We provide graphs of differences in means of 2D:4D ratios by educational attainment. Information about the distribution of self-identified nationalities and fields of university degrees of respondents is presented.

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Specifications Table

| Subject area | Economics and human biology |
|-------------|-----------------------------|
| More specific subject area | Studies of 2D:4D and behavioral patterns |
| Type of data | Individual survey |
| How data was acquired | Face-to-face interview conducted by ZAO “Demoscope” |
| Data format | SPSS |
| Experimental factors | N/A |
| Experimental features | N/A |

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Value of the data.

- Descriptive statistics of national self-identities, major fields, educational attainment and fingers’ 2D:4D measurements are helpful in the case of analyzing possible associations between education and 2D:4D.
- Detailed generalized ordered logit regressions’ outputs are helpful in understanding of the general patterns of 2D:4D associations at different levels of education obtained. Inclusion of classical predictors (education of parents) is helpful in foreseeing their correlations with different levels of educational attainment in the studied samples.
- Graphs of means are helpful in comparison of differences between averaged 2D:4D of individuals with university degree and averaged 2D:4D of individuals who completed lower levels of education.

1. Experimental design, materials and methods

Measurements were taken by a special team of 2 trained assistants, while other information was taken from the RLMS survey which contains questions regarding an individual’s socioeconomic characteristics and family background [1]. The data were anonymized before being provided to the authors for statistical analysis. The finger measurements were taken using electronic calipers. Actual measurements were made from the palmar digital crease to the fingertip of the index and ring fingers. Then measurements were rounded to the nearest millimeter.

2. Data

See Figs. 1 and 2 and Tables 1–17.

Fig. 1. Difference in means of digit ratios by education completed. Females. Note: Significant differences are found for the right hand: D1 (at 5% sig. level), D3 (at 10%).
Fig. 2. Difference in means of digit ratios by education completed. Males. Note: Significant differences are found for: the right hand D1 (at 1% sig. level), D2 (at 5%); the left hand D1 (at 1%), D2 (at 5%).

Table 1
Descriptive statistics. Females.

| Category                                                  | Mean   | Standard deviation | Minimum | Maximum | Number of observations |
|-----------------------------------------------------------|--------|--------------------|---------|---------|------------------------|
| Digit ratios of the left hand (DL)                        | 0.9988 | 0.0475             | 1       | 1       | 2148                   |
| Digit ratios of the right hand (DR)                       | 0.9991 | 0.0473             | 1       | 1       | 2146                   |
| Educational attainment                                   | 3.0083 | 1.0234             | 1       | 4       | 2172                   |
| Uncompleted secondary school education                    | 0.0999 | 0.2999             | 0       | 1       | 2172                   |
| Completed secondary school education                      | 0.2196 | 0.4141             | 0       | 1       | 2172                   |
| Completed vocational school, professional education      | 0.2528 | 0.4347             | 0       | 1       | 2172                   |
| Completed university degree or higher academic degrees    | 0.4277 | 0.4949             | 0       | 1       | 2172                   |
| Age                                                       | 51.1137| 17.2483            | 25      | 98      | 2181                   |
| Higher education of father                               | 0.2861 | 0.4521             | 0       | 1       | 1335                   |
| Higher education of mother                               | 0.2553 | 0.4362             | 0       | 1       | 1465                   |
| Settlement type 1                                         | 0.5854 | 0.4928             | 0       | 1       | 2132                   |
| Settlement type 2                                         | 0.0333 | 0.1795             | 0       | 1       | 2132                   |
| Settlement type 3                                         | 0.0727 | 0.2597             | 0       | 1       | 2132                   |
| Settlement type 4                                         | 0.0647 | 0.2461             | 0       | 1       | 2132                   |
| Settlement type 5                                         | 0.0990 | 0.2987             | 0       | 1       | 2132                   |
| settlement type 6                                         | 0.1449 | 0.3521             | 0       | 1       | 2132                   |

Note: completed university degree or higher academic degrees refers to the original category “completed higher education and higher levels of education” (the variable “p_diplom”, please, consult: https://www.hse.ru/data/2016/06/07/1247611077/R20_ind_codebook.pdf). Uncompleted secondary school education refers to the category which includes 3 original RLMS categories of educational attainment: 1) 0–6 grades of school; 2) 7–8 grades of school; 3) 7–8 grades of school and some additional education.
### Table 2
Descriptive statistics. Males.

|                                | Mean    | Standard deviation | Minimum | Maximum | Number of observations |
|--------------------------------|---------|--------------------|---------|---------|-----------------------|
| Digit ratios of the left hand (DL) | 0.9951  | 0.0456             | 1       | 1       | 1340                  |
| Digit ratios of the right hand (DR) | 0.9957  | 0.0461             | 1       | 1       | 1341                  |
| Educational attainment          | 2.8627  | 1.0521             | 1       | 4       | 1377                  |
| Uncompleted secondary school education | 0.1082  | 0.3108             | 0       | 1       | 1377                  |
| Completed secondary school education | 0.3065  | 0.4612             | 0       | 1       | 1377                  |
| Completed vocational school, professional education | 0.1997  | 0.3999             | 0       | 1       | 1377                  |
| Completed university degree or higher academic degrees | 0.3856  | 0.4869             | 0       | 1       | 1377                  |
| Age                            | 46.5477 | 15.9116            | 25      | 92      | 1384                  |
| Higher education of father     | 0.2841  | 0.4512             | 0       | 1       | 947                   |
| Higher education of mother     | 0.2437  | 0.4295             | 0       | 1       | 1038                  |
| Settlement type 1              | 0.5916  | 0.4917             | 0       | 1       | 1354                  |
| Settlement type 2              | 0.0421  | 0.2009             | 0       | 1       | 1354                  |
| Settlement type 3              | 0.0761  | 0.2652             | 0       | 1       | 1354                  |
| Settlement type 4              | 0.0569  | 0.2317             | 0       | 1       | 1354                  |
| Settlement type 5              | 0.1078  | 0.3103             | 0       | 1       | 1354                  |
| settlement type 6              | 0.1256  | 0.3315             | 0       | 1       | 1354                  |

**Note:** completed university degree or higher academic degrees refers to the original category “completed higher education and higher levels of education” (the variable “p_diplom”, please, consult: [https://www.hse.ru/data/2016/06/07/1247611077/820_ind_codebook.pdf](https://www.hse.ru/data/2016/06/07/1247611077/820_ind_codebook.pdf)). Uncompleted secondary school education refers to the category which includes 3 original RLMS categories of educational attainment: 1) 0–6 grades of school; 2) 7–8 grades of school; 3) 7–8 grades of school and some additional education.

### Table 3
Most frequent fields of university degrees.

| Field of a diploma of higher education | ISCO88 Code | Freq. | Percent |
|---------------------------------------|-------------|-------|---------|
| Economist                             | 2441        | 170   | 12.03   |
| Architects, engineers and related professionals not elsewhere classified | 2149 | 151 | 10.69 |
| Other teaching professional           | 2359        | 126   | 8.92    |
| Lawyers                               | 2421        | 92    | 6.51    |
| Electronics and telecommunications engineers | 2144 | 71   | 5.02    |
| Mechanical engineers                  | 2145        | 63    | 4.46    |
| Architects, town and traffic planners | 2141        | 52    | 3.68    |
| Medical doctors                       | 2221        | 51    | 3.61    |
| Finance and sales associate professionals not elsewhere classified | 3419 | 45 | 3.18 |
| Electrical engineers                  | 2143        | 44    | 3.11    |
|                   | (1)          | (2)          | (3)          | (4)          | (5)          | (6)          | (7)          | (8)          | (9)          | (10)         |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| **The first panel** |              |              |              |              |              |              |              |              |              |              |
| Digit ratios of the left hand (DL) | 3.4843**     | 0.5971       | 0.7798       | 0.7109       | 0.8881       |              |              |              |              |              |
|                   | (1.4489)     | (1.4371)     | (2.4018)     | (2.4185)     | (2.4144)     |              |              |              |              |              |
| Age               | −0.0497***   | 0.0057       | 0.0084       | 0.0017       | −0.0495**    | 0.0055       | 0.0080       | 0.0103       |              |              |
|                   | (0.0041)     | (0.0140)     | (0.0147)     | (0.0145)     | (0.0041)     | (0.0142)     | (0.0148)     | (0.0147)     |              |              |
| Education of father | 0.9779*     | 0.1107       | 0.0500       | 0.9797**     | 0.1100       | 0.0598       |              |              |              |              |
|                   | (0.3803)     | (0.4285)     | (0.4640)     | (0.3817)     | (0.4269)     | (0.4593)     |              |              |              |              |
| Education of mother | 1.9392***   | 2.3208***    |              |              |              |              |              |              |              |              |
|                   | (0.6692)     | (0.8317)     |              |              |              |              |              |              |              |              |
| Digit ratios of the right hand (DR) |              |              |              |              |              |              |              |              | 3.2494***   | 0.5382       |
|                   |              |              |              |              |              |              |              |              | (1.5158)     | (1.2744)     |
| Constant          | −1.2660      | 4.4401***    | 1.8675       | 1.7615       | 1.6130       | −1.0337      | 4.4829**     | 3.0888       | 3.3617       | 3.3018       |
|                   | (1.4390)     | (1.5087)     | (2.6610)     | (2.6982)     | (2.6671)     | (1.5055)     | (1.3430)     | (3.0086)     | (3.0760)     | (3.0723)     |
| **The second panel** |              |              |              |              |              |              |              |              |              |              |
| Digit ratios of the left hand (DL) | 1.0525       | 0.6725       | −0.4981      | −0.2664      | −0.5845      |              |              |              |              |              |
|                   | (0.9940)     | (0.9941)     | (1.3581)     | (1.3774)     | (1.4146)     |              |              |              |              |              |
| Age               | −0.0130***   | −0.0065      | −0.0019      | 0.0011       | −0.0136***   | −0.0067      | −0.0021      | 0.0010       |              |              |
|                   | (0.0030)     | (0.0058)     | (0.0059)     | (0.0062)     | (0.0030)     | (0.0058)     | (0.0059)     | (0.0062)     |              |              |
| Education of father | 1.3639      | 0.6999       | 0.6444       | 1.3601       | 0.6896       | 0.6326       |              |              |              |              |
|                   | (0.1730)     | (0.2108)     | (0.2231)     | (0.1732)     | (0.2098)     | (0.2219)     |              |              |              |              |
| Education of mother | 1.3069**    | 1.2932**     |              |              |              |              |              |              | 1.3122**     | 1.2954**     |
|                   | (0.2437)     | (0.2614)     |              |              |              |              |              |              | (0.2434)     | (0.2613)     |
| Digit ratios of the right hand (DR) |              |              |              | −0.0037      | −0.5748      | −1.0692      | −1.0191      | −1.2166      |              |              |
|                   |              |              |              | (1.0388)     | (0.9988)     | (1.3277)     | (1.3606)     | (1.3904)     |              |              |
| Constant          | −0.2959      | 0.7538       | 1.3981       | 0.8843       | 1.1687       | 0.7594       | 2.0297***    | 1.9796       | 1.6482       | 1.8137       |
|                   | (0.9928)     | (1.0186)     | (1.3974)     | (1.4182)     | (1.4567)     | (1.4567)     | (1.3606)     | (1.3606)     | (1.3606)     | (1.3606)     |
| **The third panel** |              |              |              |              |              |              |              |              |              |              |
| Digit ratios of the left hand (DL) | 0.6760       | 0.1289       | −0.9949      | −0.8382      | −0.9564      |              |              |              |              |              |
|                   | (0.9482)     | (0.9617)     | (1.3197)     | (1.3291)     | (1.3709)     |              |              |              |              |              |
| Age               | −0.0254***   | −0.0405      | −0.0384      | −0.0371      | −0.0254***   | −0.0406***   | −0.0386***   | −0.0372***   |              |              |
|                   | (0.0028)     | (0.0055)     | (0.0055)     | (0.0057)     | (0.0029)     | (0.0055)     | (0.0055)     | (0.0057)     |              |              |
| Education of father | 1.4852      | 0.9813       | 0.9204**     |              |              |              |              |              | 1.4883       | 0.9841**     |
|                   | (0.1390)     | (0.1602)     | (0.1621)     |              |              |              |              |              | (0.1392)     | (0.1603)     |

Table 4
Generalized logistic regression output, regression coefficients. Dependent variable – educational attainment. Females. The full sample.
| Education of mother | 1.0046*** (0.1720) | 0.9620*** (0.1762) | 1.0048*** (0.1717) | 0.9619*** (0.1759) |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| Digit ratios of the right hand (DR) | 1.3944 | 0.3368 | −1.0802 | −0.9006 |
| Constant            | 0.9719 0.8559 2.1772 1.8303 1.9039 | (0.9920) 0.9868 1.3196 1.3314 | (1.3314) 1.3746 | (1.3746) |
| (0.9481) (0.9824) (1.3569) (1.3701) (1.4109) | (0.9922) (1.0139) (1.3610) (1.3752) (1.4194) |
| Log-likelihood      | −2723.0374 | −2612.3722 | −1429.4636 | −1390.8657 |
| Log-likelihood, constant term only | −1342.9507 | −2717.8522 | −2608.9914 | −1428.2490 |
| Prob > chi²         | 5.8305 274.0802 | 184.4334 204.0737 | 246.8716 9.8131 | 288.6240 183.7555 |
| Pseudo R²           | 0.1202 0.0400 | 0.0000 0.0728 | 0.0890 0.1054 | 0.0019 0.0419 |
| Number of observations | 2139 2139 | 1312 1302 | 1279 2137 | 2137 1311 |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. In some specifications for females STATA returns errors, outcomes with a predicted probability that is less than 0. Details available upon request.

• p < 0.1,
** p < 0.05,
*** p < 0.01.
Table 5
Generalized logistic regression output, regression coefficients. Dependent variable – educational attainment. Males. The full sample.

|          | (1)     | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| **The first panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL)  | 3.2277*  | 3.1904* | 4.3532** | 4.3588** | 4.2502** |         |         |         |         |         |
| (1.6727) | (1.6685) | (2.0493) | (2.0980) | (2.1344) |         |         |         |         |         |         |
| Age      | -0.0159* | 0.0235* | 0.0256*  | 0.0282*  | -0.0160* | 0.0235** | 0.0254*  | 0.0283*  |         |         |
| (0.0074) | (0.0114) | (0.0119) | (0.0132) | (0.0074) | (0.0114) | (0.0118) | (0.0132) |         |         |
| Education of father | 1.0400*** |         | 0.6299   | 0.5849   | 1.0490*** | 1.6438   | 0.5987   |         |         |         |
| (0.3391) | (0.3698) | (0.3888) | (0.3386) | (0.3678) | (0.3865) |         |         |         |         |
| Education of mother | 0.7292   | 0.7144 |         |         | 0.7188   | 0.7098   |         |         |         |         |
|          | (0.4021) | (0.4109) |         |         | (0.3992) | (0.4062) |         |         |         |         |
| Digit ratios of the right hand (DR) | 2.0524   | 1.8918  | 2.8940  | 2.9893  | 2.7232  |         |         |         |         |         |
| Constant     | -1.0991  | -0.3075 | -3.0999 | -3.1994 | -3.1957 | 0.0649 | 0.9835 | -1.6591 | -1.8413 | -1.6797 |
| (1.6582) | (1.7229) | (2.1621) | (2.2334) | (2.2644) | (1.9474) | (1.9338) | (2.7652) | (2.8797) | (2.8796) |
| **The second panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL)  | 2.6303** | 2.7658** | 3.6291** | 3.8604** | 3.3865* |         |         |         |         |         |
| (1.1867) | (1.1855) | (1.4907) | (1.5127) | (1.5780) |         |         |         |         |         |         |
| Age      | -0.0102  | -0.0072 | -0.0035  | -0.0000  | 0.0070*  | -0.0107  | -0.0077  | -0.0039  |         |         |
| (0.0037) | (0.0068) | (0.0073) | (0.0074) | (0.0037) | (0.0068) | (0.0069) | (0.0073) |         |         |
| Education of father | 1.5213   | 1.1709* | 1.0966  | 1.5256  | 1.1768*  | 1.0988  | 0.6587*  | 0.6153*  |         |         |
| (0.1805) | (0.1978) | (0.2029) | (0.1814) | (0.1988) | (0.2043) |         |         |         |         |
| Education of mother | 0.6600*  | 0.6081  |         |         | 0.2040*  | 0.2102*  |         |         |         |         |
|          | (0.2030) | (0.2104) |         |         |         |         |         |         |         |         |
| Digit ratios of the right hand (DR) | 1.0218   | 1.0980  | 2.4506  | 2.7218  | 2.4610  |         |         |         |         |         |
| Constant     | -2.2556  | -2.7322** | -3.2274** | -3.6096** | -3.2254** | -0.6584 | -1.0590 | -2.0394 | -2.4616 | -2.2878 |
| (1.1805) | (1.2020) | (1.5157) | (1.5376) | (1.6051) | (1.2561) | (1.2782) | (1.6068) | (1.6409) | (1.6927) |
| **The third panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL)  | 3.5982*** | 3.8124*** | 3.8739*** | 3.9730*** | 3.0852* |         |         |         |         |         |
| (1.2432) | (1.2432) | (1.5763) | (1.6067) | (1.6976) |         |         |         |         |         |         |
| Age      | 0.0103*** | -0.0050  | -0.0005  | -0.0000  | 0.0098*** | -0.0055  | -0.0011  | -0.0006  |         |         |
| (0.0036) | (0.0071) | (0.0072) | (0.0074) | (0.0036) | (0.0071) | (0.0073) | (0.0074) |         |         |
|                              |                |                |                |                |                |                |                |
|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| **Education of father**      | 1.6327***      | 1.1307***      | 1.0682***      | 1.6460***      | 1.1419***      | 1.0791***      |
|                              | (0.1586)       | (0.1799)       | (0.1873)       | (0.1588)       | (0.1814)       | (0.1886)       |
| **Education of mother**      | 0.9973***      | 0.9882***      | 1.0006**       | 1.0006***      | 0.9920***      | 0.9920***      |
|                              | (0.1885)       | (0.1968)       | (0.1873)       | (0.1814)       | (0.1901)       | (0.1981)       |
| **Digit ratios of the right**|                |                |                |                |                |                |                |
| hand (DR)                    | 2.0458         | 2.1745         | 3.6461**       | 3.8292**       | 2.8680         |
| **Constant**                 |                |                |                |                |                |                |                |
|                              | -4.0480        | -4.7395        | -4.6580        | -5.0345        | -4.1086        |
|                              | (1.2399)       | (1.2601)       | (1.6133)       | (1.6458)       | (1.7440)       |
| **Log-likelihood**           | -1721.6307     | -1711.0707     | -1085.1458     | -1049.9121     | -1006.2147     |
| **Log-likelihood, constant** | -1726.2623     | -1726.2623     | -1157.5867     | -1133.1605     | -1113.8247     |
| term only                    |                |                |                |                |                |                |                |
| **Wald chi2**                | 9.7780         | 30.0863        | 132.1550       | 144.8687       | 4052.6961      |
| **Prob > chi2**              | 0.0206         | 0.0000         | 0.0000         | 0.0000         | 0.0000         |
| **Pseudo R2**                | 0.0027         | 0.0088         | 0.0626         | 0.0735         | 0.0966         |
| **Number of observations**   | 1334           | 1334           | 912            | 895            | 880            |

**Note:** Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types.

* *p < 0.1,
** p < 0.05,
*** p < 0.01.
**Table 6**
Generalized logistic regression output, regression coefficients. Dependent variable – educational attainment. Females. The subsample created by the first method of the deletion of outliers.

|                  | (1)     | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| **The first panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 2.2510  | −1.2185 | −1.2333 | −0.6585 | −1.2696 |         |         |         |         |         |
|                  | (2.2993)| (2.2010)| (3.5893)| (3.7115)| (3.9789)|         |         |         |         |         |
| Age              | −0.0483 | 0.0064  | 0.0103  | 0.0107  | −0.0480 | 0.0075  | 0.0116  | 0.0123  |         |         |
|                  | (0.0048)| (0.0169)| (0.0172)| (0.0177)| (0.0051)| (0.0170)| (0.0176)| (0.0179)|         |         |
| Education of father | 1.0230  | −0.0061 | −0.0598 | 1.0206  | −0.0354 | −0.1092 |         |         |         |         |
|                  | (0.4407)| (0.4592)| (0.5184)| (0.4398)| (0.4647)| (0.5184)|         |         |         |         |
| Education of mother | 2.2610  | 2.9253  | 0.7541  | 1.0502  |         |         |         |         |         |         |
|                  | (2.4015)| (2.2982)| (2.4562)| (2.4721)| (2.4764)|         |         |         |         |         |
| Digit ratios of the right hand (DR) |         |         |         |         |         | 5.0461** | 0.5329  | 1.8928  | 2.1946  | 2.2323  |
|                  | (2.2922)| (2.2761)| (2.3866)| (2.4267)| (2.4839)| (2.5031)| (2.5027)|         |         |         |
| **The second panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 2.0257  | 1.7231  | 1.0220  | 1.7712  | 0.8834  |         |         |         |         |         |
|                  | (1.5207)| (1.9771)| (2.0847)| (2.185)|         |         |         |         |         |         |
| Age              | −0.0112 | −0.0044 | 0.0002  | 0.0060  | −0.0115 | −0.0045 | −0.0003 | 0.0062  |         |         |
|                  | (0.0035)| (0.0068)| (0.0068)| (0.0073)| (0.0035)| (0.0068)| (0.0068)| (0.0073)|         |         |
| Education of father | 1.3293  | 0.6409  | 0.5639  | 1.3098  | 0.6057  | 0.5146  |         |         |         |         |
|                  | (0.1987)| (0.2246)| (0.2456)| (0.1985)| (0.2260)| (0.2457)|         |         |         |         |
| Education of mother | 1.3271  | 1.3353  | 0.2556  | 0.2821  |         |         |         |         |         |         |
|                  | (1.5766)| (1.0936)| (0.2666)| (0.2477)| (1.5638)| (1.5734)| (2.1450)| (2.2195)| (2.2617)|         |
| Digit ratios of the right hand (DR) |         |         |         |         |         | 1.5638  | (1.5734)| (2.1450)| (2.2195)| (2.2617)|
|                  | (1.5177)| (1.5582)| (1.9974)| (2.1202)| (2.1541)| (1.5601)| (1.6014)| (2.1632)| (2.2324)| (2.2694)|
| **The third panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 1.3580  | 0.4314  | −0.8851 | −1.1715 | −1.2124 |         |         |         |         |         |
|                  | (1.4105)| (1.4426)| (1.8893)| (1.9632)| (1.9916)|         |         |         |         |         |
| Age              | −0.0243 | −0.0373 | −0.0357 | −0.0337 | −0.0241 | −0.0376 | −0.0361 | −0.0345 |         |         |
|                  | (0.0032)| (0.0061)| (0.0062)| (0.0065)| (0.0032)| (0.0061)| (0.0062)| (0.0065)|         |         |
| Education of father | 1.5524  | 1.0359  | 0.9403  | 1.5563  | 1.0400  | 0.9496  |         |         |         |         |
|                  | (0.1605)| (0.1832)| (0.1872)| (0.1603)| (0.1825)| (0.1863)|         |         |         |         |
| Education of mother | 0.9793*** | 0.9480*** | 0.9837*** | 0.9603*** |
|---------------------|-----------|-----------|-----------|-----------|
|                     | (0.1925)  | (0.2009)  | (0.1923)  | (0.2008)  |
| Digit ratios of the right hand (DR) | 2.9474* | 2.0063 | 1.0946 | 1.5615 |
|                     | (1.4633)  | (1.4670)  | (2.0072)  | (2.0632)  |
| Constant            | – 1.5509  | 0.6032    | 2.0273    | 2.8146    |
|                     | (1.4093)  | (1.4665)  | (1.9087)  | (1.9899)  |
|                     | 2.1467    | 2.1513    | – 3.1365**| – 0.9824  |
|                     | (2.0127)  | (1.4611)  | (1.4878)  | (2.0256)  |
|                     |          |          | (2.0806)  | (2.1286)  |
| Log-likelihood      | – 2134.1649 | – 2053.5706 | – 1114.2579 | – 1084.7317 |
|                     | – 1035.3825 | – 2131.5223 | – 2054.2079 | – 1114.5962 |
|                     | – 1085.4547 | – 1035.1144 |          |          |
| Log-likelihood, con- | – 2135.1518 | – 2135.1518 | – 1204.7558 | – 1194.3461 |
| stant term only     |           |          | – 1173.1319 | – 1173.1319 |
|                     |           |          |          |          |
| Wald chi2           | 1.9560    | 206.5849  | 145.1253  | 162.2913  |
|                     | 121.7607  | 7.5217    | 197.2079  | 145.8338  |
|                     | 162.3549  | 213.0744  |          |          |
| Prob > chi2         | 0.5816    | 0.0000    | 0.0000    | 0.0000    |
|                     | 0.0000    | 0.0000    | 0.0000    | 0.0000    |
|                     | 0.0000    | 0.0000    | 0.0000    | 0.0000    |
|                     | 0.0005    | 0.0382    | 0.0751    | 0.0918    |
| Pseudo R2           | 0.0000    | 0.0000    | 0.0000    | 0.0000    |
|                     | 0.0000    | 0.0000    | 0.0000    | 0.0000    |
|                     | 0.0000    | 0.0000    | 0.0000    | 0.0000    |
| Number of observations | 1710     | 1710      | 1045      | 1019      |
|                     | 1037      | 1710      | 1045      | 1037      |
|                     | 1019      | 1710      | 1045      | 1037      |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. In some specifications for females STATA returns errors, outcomes with a predicted probability that is less than 0. Details available upon request.

* p < 0.1
** p < 0.05
*** p < 0.01
Table 7
Generalized logistic regression output, regression coefficients. Dependent variable – educational attainment. Males. The subsample created by the first method of the deletion of outliers.

|                | (1)     | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| **The first panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 6.6736*** | 6.8050** | 5.9635* | 5.3789  | 4.7567  |         |         |         |         |         |
| Age            | 0.0170  | 0.0316  | 0.0310  | 0.0345  |         | 0.0164  | 0.0330*** | 0.0311*** | 0.0356*** |         |
| Education of father | 1.3153*** | 1.0765* | 0.9943  |         | 1.3484*** | 1.1061*** | 1.0325**  |         |         |         |
| Education of mother |         | 0.3547  | 0.5321  |         | 0.4691  |         | 0.5065  |         |         |         |
| Digit ratios of the right hand (DR) | 5.1183*** | 5.0916** | 5.4015** | 5.9889*** | 5.5467** |         |         |         |         |         |
| Age            |         | 0.0079  | 0.0084  |         |         |         | 0.0081* | 0.0073  | 0.0046  |         |
| Education of father | 1.4845*** | 1.1896** | 1.1301  |         | 1.4945** | 1.2079** | 1.1497** |         |         |         |
| Education of mother | 0.5395  | 0.5056  |         |         | 0.2428  |         | 0.2444  |         |         |         |
| Digit ratios of the right hand (DR) |         |         |         |         |         |         | 4.5401** | 4.5495** | 5.5242** | 6.3234*** |
| Constant       |         |         |         |         |         |         |         |         |         |         |
| **The second panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 5.1183*** | 5.0916** | 5.4015** | 5.9889*** | 5.5467** |         |         |         |         |         |
| Age            | 0.0079  | 0.0084  | 0.0058  | 0.0034  |         | 0.0081* | 0.0073  | 0.0046  | 0.0022  |         |
| Education of father | 1.4845*** | 1.1896** | 1.1301  |         | 1.4945** | 1.2079** | 1.1497** |         |         |         |
| Education of mother | 0.5395  | 0.5056  |         |         | 0.2428  |         | 0.2444  |         |         |         |
| Digit ratios of the right hand (DR) |         |         |         |         |         |         | 4.5401** | 4.5495** | 5.5242** | 6.3234*** |
| Constant       |         |         |         |         |         |         |         |         |         |         |
| **The third panel** |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 5.5133*** | 5.5187** | 4.7503** | 5.2349** | 4.2362  |         |         |         |         |         |
| Age            | 0.0094  | 0.0043  |         |         | 0.0001  | 0.0006  |         | 0.0043  | 0.0001  |         |
| Education of father | 1.5467*** | 1.0664  | 1.0433  |         | 1.5644** | 1.0832** | 1.0662** |         |         |         |

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|                                |        |        |        |        |        |        |
|--------------------------------|--------|--------|--------|--------|--------|--------|
|                                | 0.8986 | 0.8746 | 0.9031 | 0.8754 |
|                                | (0.2232) | (0.2337) | (0.2266) | (0.2391) |
| Education of mother            |        |        |        |        |        |        |
| Digit ratios of the right hand |        |        |        |        |        |        |
| (DR)                           | 5.3085 | 5.3024 | 7.3764 | 7.9591|
|                                | (1.8632) | (1.8608) | (2.3121) | (2.3437) |
| Constant                       |        |        |        |        |        |        |
|                                | 5.9758 | 5.2597 | 6.2702 | 6.7690|
|                                | (1.7772) | (2.1850) | (2.1990) | (2.2347) |
| Log-likelihood                 | 1298.7501 | 1290.7834 | 816.0790 | 791.5661|
| Log-likelihood, constant term  | 1304.7007 | 1304.7007 | 868.7191 | 849.8762|
| only                           |        |        |        |        |        |        |
| Wald chi2                      | 12.9592 | 26.8157 | 95.1559 | 101.9754|
| Prob > chi2                    | 0.0047 | 0.0002 | 0.0000 | 0.0000|
| Pseudo R2                      | 0.0046 | 0.0107 | 0.0606 | 0.0686|
| Number of observations         | 1010   | 1010   | 688    | 675    |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types.

* p < 0.1,  ** p < 0.05,  *** p < 0.01.
| (1)    | (2)    | (3)    | (4)    | (5)    | (6)    | (7)    | (8)    | (9)    | (10)   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| The first panel | | | | | | | | | |
| Digit ratios of the left hand (DL) | 3.6392** | 0.5897 | 0.8193 | 0.6356 | 0.6645 | (1.5274) | (1.5654) | (2.4705) | (2.5275) | (2.5905) |
| Age | -0.0491*** | 0.0056 | 0.0083 | 0.0106 | 0.0491*** | (0.0041) | (0.0139) | (0.0145) | (0.0144) | (0.0041) |
| Education of father | 0.9800** | 0.0925 | 0.0044 | 0.9750** | 0.0841 | (0.3799) | (0.4303) | (0.4702) | (0.3812) | (0.4298) |
| Education of mother | 1.9575*** | 2.3490*** | (0.6733) | (0.8387) | (0.6707) | (0.8620) | (0.0055) | (0.0132) | (0.0060) | (0.0016) |
| Digit ratios of the right hand (DR) | 2.8032* | 0.2486 | -0.4377 | -0.8620 | -0.6707 | (1.6125) | (1.3376) | (2.8849) | (2.9935) | (2.9975) |
| Constant | -1.4175 | 4.4127*** | 1.8291 | 1.8360 | 1.8413 | (1.5163) | (1.6359) | (2.7317) | (2.8057) | (2.8506) |
| The second panel | | | | | | | | | |
| Digit ratios of the left hand (DL) | 1.5186 | 1.1237 | -0.2535 | -0.0692 | -0.3430 | (1.0527) | (1.0557) | (1.3516) | (1.3855) | (1.4235) |
| Age | -0.0127*** | -0.0059 | -0.0014 | 0.0015 | -0.0132*** | (0.0030) | (0.0059) | (0.0059) | (0.0062) | (0.0059) |
| Education of father | 1.4004*** | 0.7479*** | 0.6993** | 1.3989*** | 0.7388*** | (0.1757) | (0.2157) | (0.2283) | (0.1759) | (0.2145) |
| Education of mother | 1.2681*** | 1.2489*** | (0.2453) | (0.2630) | (0.2698) | (0.2449) | (0.2627) | (0.2698) | (0.2627) | (0.2698) |
| Digit ratios of the right hand (DR) | 0.3955 | -0.2107 | -0.9362 | -0.8900 | -1.0166 | (1.0554) | (1.0290) | (1.3306) | (1.3702) | (1.3885) |
| Constant | -0.7482 | 0.3009 | 1.1315 | 0.6727 | 0.9111 | (1.0504) | (1.0801) | (1.3887) | (1.4248) | (1.4633) |
| The third panel | | | | | | | | | |
| Digit ratios of the left hand (DL) | 1.1969 | 0.6018 | -0.8619 | -0.7802 | -0.8674 | (0.9942) | (1.0178) | (1.3375) | (1.3526) | (1.3922) |
| Age | -0.0250*** | -0.0402** | -0.0381*** | -0.0367*** | -0.0251*** | (0.0028) | (0.0055) | (0.0055) | (0.0057) | (0.0029) |
|                                | (1)     | (2)     | (3)     | (4)     | (5)     |
|--------------------------------|---------|---------|---------|---------|---------|
| **Education of father**        | 1.5018*** | 0.9980*** | 0.9359*** | 1.5067*** | 1.0030*** |
|                                | (0.1398) | (0.1612) | (0.1630) | (0.1400) | (0.1612) |
| **Education of mother**        | 0.9928*** | 0.9516*** | 0.9406*** | 0.9930*** | 0.9517*** |
|                                | (0.1721) | (0.1764) | (0.1764) | (0.1718) | (0.1760) |
| **Digit ratios of the**        | 1.6498** | 0.5852** | 0.9736** | 0.7972** | 0.5114** |
| right hand (DR)                | (1.0014) | (1.0009) | (1.3258) | (1.3395) | (1.3756) |
| **Constant**                   | – 1.4855 | 0.3725  | 2.0334  | 1.7626  | 1.8020  |
|                                | (0.9936) | (1.0380) | (1.3731) | (1.3919) | (1.4295) |
| **Log – likelihood**           | –2698.4541 | –2590.8460 | –1420.2816 | –1382.6169 | –1333.9520 |
| **Log-likelihood, constant**   | –2701.5398 | –2701.5398 | –1533.1370 | –1518.1611 | –1492.5486 |
| **term only**                  | –1382.6169 | –1333.9520 | –2698.0187 | –2590.9686 | –1420.2873 |
|                                | –1420.2816 | –1382.6169 | –2590.9686 | –1420.2873 | –1382.6404 |
|                                | –1333.9520 | –2698.0187 | –2590.9686 | –1420.2873 | –1382.6404 |
|                                | –1533.1370 | –1420.2816 | –1382.6404 | –1333.9385 | –1492.5486 |
|                                | –1518.1611 | –1382.6404 | –1333.9385 | –1492.5486 | –1492.5486 |
| **Wald chi2**                  | 5.9076   | 267.0128 | 184.5987 | 202.7915 | 246.9398 |
| **Prob > chi2**                | 0.1162   | 0.0000   | 0.0000   | 0.0000   | 0.0819   |
| **Pseudo R2**                  | 0.0011   | 0.0410   | 0.0736   | 0.0893   | 0.1063   |
| **Number of observations**     | 2122     | 2122     | 1305     | 1295     | 1272     |

*Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. In some specifications for females STATA returns errors, outcomes with a predicted probability that is less than 0. Details available upon request.*

\* p < 0.1, \** p < 0.05, \*** p < 0.01.
Table 9
Generalized logistic regression output, regression coefficients. Dependent variable – educational attainment. Males. The subsample created by the second method of the deletion of outliers.

|       | (1)            | (2)            | (3)            | (4)            | (5)            | (6)            | (7)            | (8)            | (9)            | (10)           |
|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| The first panel |                |                |                |                |                |                |                |                |                |                |
| Digit ratios of the left hand (DL) | 3.7177**       | 3.7060**       | 4.5882**       | 4.5931**       | 4.5483*        |                |                |                |                |                |
|         | (1.8033)       | (1.7925)       | (2.2423)       | (2.2980)       | (2.3401)       |                |                |                |                |                |
| Age    | −0.0153        | 0.0233         | 0.0254         | 0.0284         |                | −0.0154        | 0.0234         | 0.0253         | 0.0253         | 0.0284         |
|         | (0.0074)       | (0.0114)       | (0.0118)       | (0.0133)       |                | (0.0075)       | (0.0114)       | (0.0119)       | (0.0119)       | (0.0133)       |
| Education of father | 1.0407**   | 0.6251*        | 0.5737         |                | 1.0478         | 0.6369         | 0.5879         |                |                |                |
|         | (0.3392)       | (0.3696)       | (0.3875)       |                | (0.3389)       | (0.3672)       | (0.3843)       |                |                |                |
| Education of mother | 0.7401*       | 0.7389         |                |                | 0.7304         | 0.7372         |                |                |                |                |
|         | (0.4018)       | (0.4126)       |                |                | (0.3984)       | (0.4072)       |                |                |                |                |
| Digit ratios of the right hand (DR) |                |                |                |                | 2.4277         | 2.2814         | 2.9278         | 3.0479         | 2.6889         |                |
| Constant | −1.5817        | −0.8454        | −3.3298        | −3.4310        | −3.5043        | −0.3058        | 0.5664         | −1.6932        | −1.9014        | −1.6563        |
|         | (1.7861)       | (1.8372)       | (2.3277)       | (2.4055)       | (2.4461)       | (1.9327)       | (2.7753)       | (2.8849)       | (2.9055)       |                |
| The second panel |                |                |                |                |                |                |                |                |                |                |
| Digit ratios of the left hand (DL) | 2.6709**       | 2.7917**       | 3.6392**       | 3.8688**       | 3.5457**       |                |                |                |                |                |
|         | (1.2247)       | (1.2238)       | (1.5565)       | (1.5803)       | (1.6353)       |                |                |                |                |                |
| Age    | −1.5817        | −0.8454        | −3.3298        | −3.4310        | −3.5043        | −0.3058        | 0.5664         | −1.6932        | −1.9014        | −1.6563        |
|         | (1.7861)       | (1.8372)       | (2.3277)       | (2.4055)       | (2.4461)       | (1.9327)       | (2.7753)       | (2.8849)       | (2.9055)       |                |
| Education of father | 1.5127         | 1.1586         | 1.0845         | 1.5014         | 1.1565         | 1.0841         |                |                |                |                |
|         | (0.1806)       | (0.1979)       | (0.2035)       | (0.1814)       | (0.1988)       | (0.2048)       |                |                |                |                |
| Education of mother | 0.6647         | 0.6085         | 0.2109         | 0.6667         | 0.6191*        | 0.2039         | 0.2108         |                |                |                |
|         | (0.2029)       | (0.2109)       |                | (0.2039)       | (0.2108)       |                |                |                |                |                |
| Digit ratios of the right hand (DR) |                |                |                |                | 1.3710         | 1.4340         | 2.7588*        | 3.0880*        | 2.8176*        |                |
| Constant | −2.2943        | −2.7529*       | −3.2225*       | −3.6019**      | −3.3585**      | −1.0025        | −1.3933        | −2.3444        | −2.8256*       | −2.6326        |
|         | (1.2185)       | (1.2377)       | (1.5753)       | (1.5987)       | (1.6580)       | (1.2584)       | (1.2785)       | (1.6179)       | (1.6375)       | (1.6970)       |
| The third panel |                |                |                |                |                |                |                |                |                |                |
| Digit ratios of the left hand (DL) | 3.6609**       | 3.8546***      | 3.9814**       | 4.0698*        | 3.2953         |                |                |                |                |                |
|         | (1.2639)       | (1.2636)       | (1.6065)       | (1.6375)       | (1.7269)       |                |                |                |                |                |
| Age    | −0.0103        | −0.0055        | −0.0011        | −0.0009        |                | 0.0100**       | −0.0058        | −0.0015        | −0.0012        |                |
|         | (0.0036)       | (0.0071)       | (0.0072)       | (0.0074)       |                | (0.0036)       | (0.0071)       | (0.0073)       | (0.0074)       |                |
| Education of father | 1.6196*        | 1.1126         | 1.0485         | 1.6291*        | 1.1171*        | 1.0546*        |                |                |                |                |
|         | (0.1589)       | (0.1803)       | (0.1882)       | (0.1589)       | (0.1813)       | (0.1891)       |                |                |                |                |
| Education of mother | 1.0026*** (0.1886) | 0.9923*** (0.1975) | 1.0137*** (0.1901) | 1.0026*** (0.1988) |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| Digit ratios of the right hand (DR) | 2.5251* (1.2941) | 2.6368** (1.2883) | 4.2585*** (1.6025) | 4.5633*** (1.5953) |
| Constant | 4.1062*** (1.2605) | 4.7798*** (1.2787) | 5.1039*** (1.6398) | 4.2833*** (1.6729) |
| Log-likelihood | –1712.6158 | –1702.4898 | –1081.3821 | –1001.9992 |
| Log-likelihood, constant term only | –1717.5064 | –1717.5064 | –1152.8126 | –1128.3866 |
| Wald chi2 | 10.1074 | 29.5783 | 129.9453 | 142.9787 |
| Prob > chi2 | 0.0177 | 0.0000 | 0.0000 | 0.0000 |
| Pseudo R2 | 0.0028 | 0.0087 | 0.0620 | 0.0730 |
| Number of observations | 1328 | 1328 | 908 | 891 |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types.

* p < 0.1,
** p < 0.05,
*** p < 0.01.
Table 10
Self-identified nationalities.

| Self-identified nationality | Groups for dummy variables | Freq. | Percent  |
|-----------------------------|----------------------------|-------|----------|
| Russian Reference           |                            | 3174  | 90.02    |
| Ukrainian Reference         |                            | 44    | 1.25     |
| Belarusian Reference        |                            | 18    | 0.51     |
| German Reference            |                            | 2     | 0.06     |
| Polish Reference            |                            | 4     | 0.11     |
| Armenian Caucasian          |                            | 47    | 1.33     |
| Tatar Reference             |                            | 61    | 1.73     |
| Spanish Reference           |                            | 1     | 0.03     |
| Chuvash Reference           |                            | 14    | 0.4      |
| Moldavian Reference         |                            | 14    | 0.4      |
| Udmurt Reference            |                            | 2     | 0.06     |
| Mordvinian Reference        |                            | 14    | 0.4      |
| Armenian Caucasian          |                            | 14    | 0.4      |
| Kazakh Asian                |                            | 2     | 0.06     |
| Jewish Reference            | Caucasian                  | 27    | 0.77     |
| Bashkir Reference           |                            | 1     | 0.03     |
| Lezghian Caucasian          |                            | 4     | 0.11     |
| Lithuanian Reference        |                            | 4     | 0.11     |
| Kabardinian Caucasian       |                            | 1     | 0.03     |
| Dargin Caucasian            |                            | 1     | 0.03     |
| Ossetian Caucasian          |                            | 1     | 0.03     |
| Georgian Caucasian          |                            | 13    | 0.37     |
| Turkmen Asian               |                            | 1     | 0.03     |
| Korean Asian                |                            | 5     | 0.14     |
| Bulgarian Reference         |                            | 3     | 0.09     |
| Uzbek Asian                 |                            | 17    | 0.48     |
| Avar Caucasian              |                            | 5     | 0.14     |
| Karelian Reference          |                            | 1     | 0.03     |
| Kirghiz Asian               |                            | 2     | 0.06     |
| Afghan Reference            |                            | 1     | 0.03     |
| Ingush Caucasian            |                            | 5     | 0.14     |
| Daghestani Caucasian        |                            | 1     | 0.03     |
| Persian Reference           |                            | 1     | 0.03     |
| Tajik Asian                 |                            | 9     | 0.26     |
| Turkish Reference           | Caucasian                  | 1     | 0.03     |
| Chechen Caucasian           |                            | 1     | 0.03     |
| Serbian Reference           |                            | 1     | 0.03     |
| Cossack Reference           |                            | 1     | 0.03     |
| Indian Reference            |                            | 1     | 0.03     |
| Kalmyk Reference            |                            | 3     | 0.09     |
| Yazidi Reference            |                            | 3     | 0.09     |
| Circassian Caucasian        |                            | 1     | 0.03     |
| Total                       |                            | 3526  | 100      |

Note: The original RLMS question for the self-identification of individuals' nationality is the following: “What nationality do you consider yourself? I don’t necessarily have in mind the nationality that is indicated on your passport.” Please, consult: [http://www.cpc.unc.edu/projects/rlms-hse/data/questionnaires/rtadult.pdf](http://www.cpc.unc.edu/projects/rlms-hse/data/questionnaires/rtadult.pdf)
|                | (1)       | (2)       | (3)       | (4)       | (5)       | (6)       | (7)       | (8)       | (9)       | (10)      |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| **1**          |           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | -3.2129  | -3.3838   | 1.4044    | 7.2388    | 138.2858  |           |           |           |           |           |
|                | (4.4018)  | (5.0976)  | (6.0398)  | (7.7933)  | (33.0610) |           |           |           |           |           |
| Age            | -0.0159   | -0.0137   | 0.0104    | 2.8111    | -0.0337   | -0.0103   | 0.0004    | 3.7826    |           |           |
|                | (0.0286)  | (0.0331)  | (0.0393)  | (0.2693)  | (0.0315)  | (0.0748)  | (0.0748)  | (0.2636)  |           |           |
| Education of father | 14.6014** | 17.7233***| 27.8663***| 14.0499***| 14.6404***| 29.9446***|           |           |           |           |
|                | (0.9194)  | (1.1132)  | (2.9015)  | (1.5259)  | (1.8320)  | (3.4283)  |           |           |           |           |
| Education of mother | -3.31e+08 | -45.2892**|           |           |           |           |           |           |           |           |
|                |           | (5.3531)  |           |           |           |           |           |           |           |           |
| Digit ratios of the right hand (DR) |           |           |           |           |           |           |           |           |           |           |
|                |           |           |           |           |           |           |           |           |           |           |
| Constant       | 4.7156    | 5.7065    | 0.8530    | -5.0125   | -179.9617**| 14.0107   | 19.9862   | 13.8269   | 11.6191   | -230.9693***|
|                | (4.4133)  | (6.3320)  | (6.1458)  | (7.4712)  | (29.3040) | (14.8632) | (21.2625) | (24.1982) | (43.6102) |           |
| **2**          |           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | -0.5718  | -0.2433   | -0.8594   | 0.7721    | -7.5969   |           |           |           |           |           |
|                | (4.8433)  | (4.7001)  | (8.1895)  | (9.4463)  | (12.5775) |           |           |           |           |           |
| Age            | -0.0119   | -0.0653   | -0.0447   | -0.0020   | -0.0112   | -0.0901   | -0.0617   | -0.0092   |           |           |
|                | (0.0194)  | (0.0442)  | (0.0458)  | (0.1461)  | (0.0201)  | (0.0470)  | (0.0484)  | (0.1016)  |           |           |
| Education of father | 1.9362    | 1.1651    | 18.2165** | 28.778**  | 2.4399    | 20.987**  |           |           |           |           |
|                | (1.0460)  | (1.1304)  | (2.9342)  | (0.9603)  | (1.0494)  | (1.5087)  |           |           |           |           |
| Education of mother | 16.6617** | 40.4975***|           |           |           |           |           |           |           |           |
|                | (1.3449)  | (2.5600)  |           |           |           |           |           |           |           |           |
| Digit ratios of the right hand (DR) |           |           |           |           |           |           |           |           |           |           |
|                |           |           |           |           |           |           |           |           |           |           |
| Constant       | 0.6773    | 0.9548    | 3.5236    | 1.0055    | 8.0650    | -12.9992**| -13.5861**| -13.1105  | -15.3013  | -19.5196  |
|                | (4.8637)  | (4.8888)  | (8.3808)  | (9.5518)  | (15.3778) | (5.6532)  | (5.8584)  | (8.8615)  | (9.4117)  | (22.3765) |
| **3**          |           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | 14.8900** | 14.1590   | 32.7083** | 56.7455** | 71.2787** |           |           |           |           |           |
|                | (8.0110)  | (9.7392)  | (15.5682) | (23.2198) | (34.5274) |           |           |           |           |           |
| Age            | -0.0054   | 0.0004    | -0.0260   | -0.0199   | 0.0133    | 0.0166    | 0.0152    | 0.0979    |           |           |
|                | (0.0247)  | (0.0634)  | (0.0756)  | (0.1809)  | (0.0224)  | (0.0524)  | (0.0622)  | (0.1794)  |           |           |
| Education of father | 0.5109    | -1.1655   | -37.2333**| 1.9969    | 0.4871    | -38.0722**|           |           |           |           |
|                | (0.8679)  | (0.7749)  | (1.6169)  | (0.8007)  | (0.8347)  | (1.6102)  |           |           |           |           |
|                | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Education of mother | 4.5829*** | 57.8446*** | 13.1946* | 14.3050 | 2.0891* | 60.6449*** |
| Digit ratios of the right hand (DR) | 13.1946* | 12.9545 | 14.8098 | 16.4022 | 7.4544 | 8.1298 |
| Constant | -15.5535* | -14.5482 | -33.4480*** | -56.8495*** | -69.8195* | -13.9784* | -14.3420* | -15.9229 | -16.5215 | -19.8110 |
| Log-likelihood | -15.5535* | -14.5482 | -33.4480*** | -56.8495*** | -69.8195* | -13.9784* | -14.3420* | -15.9229 | -16.5215 | -19.8110 |
| Log-likelihood, constant term only | 71.5281 | 71.2048 | 35.0046 | 35.1905 | 75.0919 |
| Wald chi2 | 4.7266 | 5.3011 | 527.0742 | 10.0497 | 11.8920 | 461.3394 |
| Prob > chi2 | 0.1929 | 0.5058 | 0.0000 | 0.0181 | 0.0644 | 0.0000 |
| Pseudo R2 | 0.0475 | 0.0518 | 0.1878 | 0.3359 | 0.6793 | 0.0783 | 0.0997 | 0.1835 | 0.2660 | 0.6587 |
| Number of observations | 56 | 56 | 33 | 32 | 31 | 56 | 56 | 33 | 32 | 31 |

**Note:** Robust standard errors. Specifications (5) and (10) include secondary school regional dummies, according to settlement types.

* p < 0.1
** p < 0.05
*** p < 0.01.
Table 12
Generalized logistic regression output, regression coefficients. Self-identities of nationalities are included. Dependent variable – educational attainment. Females. The full sample.

|                          | (1)          | (2)          | (3)          | (4)          | (5)          | (6)          | (7)          | (8)          | (9)          | (10)         |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| The first panel          |              |              |              |              |              |              |              |              |              |              |
| Digit ratios of the left hand (DL) | 3.4694**     | 0.5777       | 0.7577       | 0.6873       | 1.0052       |              |              |              |              |              |
|                          | (1.4557)     | (1.4411)     | (2.3646)     | (2.3772)     | (2.3964)     |              |              |              |              |              |
| Asian                    | 0.0511       | -1.0031      | -0.8880      | -1.0064      | -1.1457      | 0.1344       | -1.0038      | -0.9139      | -1.0601      | -1.1831      |
|                          | (0.7439)     | (0.7849)     | (0.7701)     | (0.7702)     | (0.8540)     | (0.7451)     | (0.7841)     | (0.7851)     | (0.7874)     | (0.8664)     |
| Caucasian                | 0.5336       | -0.0870      | -0.6753      | -0.6317      | -0.7905      | 0.5657       | -0.0833      | -0.6892      | -0.6500      | -0.7749      |
|                          | (0.5974)     | (0.6198)     | (0.6281)     | (0.6225)     | (0.6586)     | (0.6036)     | (0.6207)     | (0.6317)     | (0.6256)     | (0.6589)     |
| Age                      | -0.0502***   | 0.0032       | 0.0056       | 0.0068       | -0.0500**    |              |              |              |              |              |
|                          | (0.0041)     | (0.0140)     | (0.0146)     | (0.0146)     | (0.0041)     |              |              |              |              |              |
| Education of father      | 0.9626**     | 0.1159       | 0.0514       |              |              |              |              |              |              |              |
|                          | (0.3823)     | (0.4302)     | (0.4681)     |              |              |              |              |              |              |              |
| Education of mother      | 1.9050       |              |              | 2.3045**     |              |              |              |              |              |              |
|                          | (0.6641)     |              |              | (0.8234)     |              |              |              |              |              |              |
| Digit ratios of the right hand (DR) |              |              |              |              |              |              |              |              |              | 3.2302**     |
|                          |              |              |              |              |              |              |              |              |              | (0.4036)     |
| Asian                    | 0.2435       | -0.0502      | -0.3657      | -0.3697      | -0.1175      | -0.2645      | -0.4415      | -0.4091      | -0.4202      | -0.1678      |
|                          | (0.4559)     | (0.4761)     | (0.4796)     | (0.4964)     | (0.5283)     | (0.4524)     | (0.4728)     | (0.4861)     | (0.4993)     | (0.5318)     |
| Caucasian                | 0.1413       | -0.0870      | -0.2887      | -0.2819      | -0.4025      | 0.1379       | 0.0689       | -0.3224      | -0.3137      | -0.4356      |
|                          | (0.3208)     | (0.3329)     | (0.3812)     | (0.3781)     | (0.3895)     | (0.3216)     | (0.3343)     | (0.3837)     | (0.3799)     | (0.3910)     |
| Age                      | -0.0132**    | -0.0074      | -0.0028      | 0.0006       | -0.0138**    |              |              |              |              |              |
|                          | (0.0030)     | (0.0058)     | (0.0059)     | (0.0061)     | (0.0030)     |              |              |              |              |              |
| Education of father      | 1.3554       | 0.7066       | 0.6400       |              |              |              |              |              | 1.3485       | 0.6953       |
|                          | (0.1728)     | (0.2095)     | (0.2215)     |              |              |              |              |              | (0.1730)     | (0.2085)     |
| Education of mother      | 1.2781       | 1.2879**     |              |              |              |              |              |              | 1.2829**     | 1.2907**     |
|                          | (0.2429)     | (0.2604)     |              |              |              |              |              |              | (0.2423)     | (0.2600)     |
| Digit ratios of the right hand (DR) |              |              |              |              |              |              |              |              |              |              |
| Asian                    | -0.2737      | 0.7935       | 1.4724       | 0.9945       | 1.2498       | 0.8460       | 2.1624*      | 2.3113*      | 1.9791       | 2.0331       |
|                          | (0.9956)     | (1.0213)     | (1.3987)     | (1.4175)     | (1.4519)     | (1.0432)     | (1.0382)     | (1.4014)     | (1.4329)     | (1.4473)     |
Table 12 (continued)

| (1)  | (2)  | (3)  | (4)  | (5)  | (6)  | (7)  | (8)  | (9)  | (10) |
|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      |      |      |      |      |
| Digit ratios of the left hand (DL) |      |      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |      |      |
| Asian |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Caucasian |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Age   |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Education of father |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Education of mother |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Digit ratios of the right hand (DR) |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Constant |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Log-likelihood |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Log-likelihood, constant term only |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Wald chi² |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Prob > chi² |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Pseudo R² |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |
| Number of observations |      |      |      |      |      |      |      |      |      |
|       |      |      |      |      |      |      |      |      |      |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. Individuals which are not belong to "Asian" or "Caucasian" groups constitute the reference group. In some specifications for females STATA returns errors, outcomes with a predicted probability that is less than 0. Details available upon request.

* p < 0.1,
** p < 0.05,
*** p < 0.01.
Table 13: Generalized logistic regression output, regression coefficients. Self-identities of nationalities are included. Dependent variable – educational attainment. Males. The full sample.

|               | (1)     | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| The first panel |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 3.4420** | 3.3745** | 4.5063** | 4.4978** | 4.4869** |         |         |         |         |         |
|               | (1.6427) | (1.6546) | (1.9980) | (2.0265) | (2.0938) |         |         |         |         |         |
| Asian         | 14.4238*** | 12.6591*** | 13.1683*** | 13.4548*** | 14.3990*** | 12.6323*** | 12.5111*** | 13.1712*** | 14.7322*** |         |
|               | (0.2758) | (0.3112) | (0.3554) | (0.3936) | (0.5079) | (0.2765) | (0.3122) | (0.3510) | (0.3883) | (0.5056) |
| Caucasian     | −0.3322 | −0.3377 | −0.7512 | −0.5965 | −0.7328 | −0.3679 | −0.8138 | −0.8112 |         |         |
|               | (0.4533) | (0.4571) | (0.4914) | (0.5553) | (0.5817) | (0.4521) | (0.4546) | (0.4941) | (0.5598) | (0.5754) |
| Age           | −0.0159** | 0.0262** | 0.0273** | 0.0310** | −0.0160** | 0.0263** | 0.0273** | 0.0311** |         |         |
|               | (0.0075) | (0.0117) | (0.0121) | (0.0137) | (0.0076) | (0.0117) | (0.0121) | (0.0136) |         |         |
| Education of father | 1.0037*** | 0.6222 | 0.5963 | 1.0110*** | 0.3408** | 0.3769 | 0.3985 | 0.6412 | 0.6996 | 0.4059 | 0.4208 |
|               | (0.3413) | (0.3782) | (0.4004) | (0.3076) | (0.3465) | (0.3002) | (0.3076) | (0.3052) | (0.3296) | (0.3524) |
| Digits ratios of the right hand (DR) |         |         |         |         |         |         |         |         |         |         |
|               | 2.2859 | 2.0980 | 3.2457 | 3.2677 | 3.1124 |         |         |         |         |         |
| Constant      | −1.3132 | −0.4899 | −3.3441 | −3.3981 | −3.5216 | −0.1675 | 0.7795 | −2.1011 | −2.1783 | −2.1555 |         |
|               | (1.6291) | (1.7183) | (2.1223) | (2.1735) | (2.2390) | (1.9244) | (1.9348) | (2.7408) | (2.8302) | (2.8236) |         |
| The second panel |         |         |         |         |         |         |         |         |         |         |
| Digit ratios of the left hand (DL) | 2.7348** | 2.8747** | 3.5873** | 3.8184** | 3.4240** |         |         |         |         |         |
|               | (1.1906) | (1.1902) | (1.4936) | (1.5197) | (1.5824) |         |         |         |         |         |
| Asian         | 0.0837 | 0.1703 | 0.0396 | −0.1412 | 0.1483 | 0.0548 | 0.1351 | 0.0233 | −0.1635 | 0.1389 |         |
|               | (0.5254) | (0.5258) | (0.6213) | (0.6540) | (0.7804) | (0.5296) | (0.5312) | (0.6386) | (0.6724) | (0.8054) |         |
| Caucasian     | 0.2035 | 0.1962 | 0.0479 | 0.2754 | −0.0334 | 0.1870 | 0.1796 | −0.0002 | 0.2119 | −0.1124 |         |
|               | (0.3301) | (0.3321) | (0.3467) | (0.3813) | (0.4224) | (0.3294) | (0.3312) | (0.3390) | (0.3725) | (0.4165) |         |
| Age           | 0.0071 | −0.0106 | −0.0079 | −0.0036 | 0.0067 | −0.0111 | −0.0084 | −0.0039 |         |         |         |
|               | (0.0037) | (0.0069) | (0.0070) | (0.0074) | (0.0037) | (0.0069) | (0.0070) | (0.0074) |         |         |         |
| Education of father | 1.5093 | 1.1425 | 1.0721 | 1.5158 | 1.1515 | 1.0835 |         |         |         |         |
|               | (0.1815) | (0.1996) | (0.2051) | (0.1823) | (0.2007) | (0.2063) |         |         |         |         |
| Education of mother | 0.6801** | 0.6156** | 0.6156** | 0.6765 | 0.6209 | 0.2029 | 0.2125 |         |         |         |
|               | (0.2029) | (0.2122) |         | (0.2029) | (0.2125) |         |         |         |         |         |
| Digits ratios of the right hand (DR) |         |         |         |         |         |         |         |         |         |         |
|               | 1.0349 | 1.1143 | 2.4039 | 2.5891 | 2.5273 |         |         |         |         |         |
| Constant      | −2.3700** | −2.8404** | −3.1766** | −3.5556** | −3.2519** | −0.6812 | −1.0733 | −1.9846 | −2.3165 | −2.3453 |         |
|               | (1.1851) | (1.2084) | (1.5203) | (1.5463) | (1.6097) | (1.2679) | (1.2915) | (1.6312) | (1.6635) | (1.7016) |         |
Table 13 (continued)

| (1) | (2)    | (3)    | (4)    | (5)    | (6)    | (7)    | (8)    | (9)    | (10)   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| The third panel |        |        |        |        |        |        |        |        |        |
| Digit ratios of the left hand (DL) | 3.5364*** | 3.7668*** | 3.6661** | 3.7891** | 2.9513* |        |        |        |        |
|             | (1.2471) | (1.2483) | (1.5865) | (1.6203) | (1.7081) |        |        |        |        |
| Asian       | 0.0960 | 0.2314 | −0.0006 | −0.0105 | 0.0988 | 0.1000 | 0.2302 | 0.0419 | −0.0672 | 0.1168 |
|             | (0.5176) | (0.5090) | (0.6638) | (0.5734) | (0.6347) | (0.5153) | (0.5087) | (0.6749) | (0.5838) | (0.6514) |
| Caucasian   | −0.0848 | −0.0848 | −0.1802 | −0.0184 | −0.6796 | −0.1101 | −0.1113 | −0.2331 | −0.0791 | −0.7392 |
|             | (0.3223) | (0.3188) | (0.4330) | (0.4567) | (0.5212) | (0.3285) | (0.3253) | (0.4327) | (0.4580) | (0.5247) |
| Age         | 0.0105 | −0.0048 | −0.0005 | 0.0006 | 0.0101 | −0.0051 | −0.0010 | 0.0001 |        |        |
|             | (0.0036) | (0.0071) | (0.0073) | (0.0075) | (0.0036) | (0.0072) | (0.0074) | (0.0075) |        |        |
| Education of father | 1.6614*** | 1.1454** | 1.1100* | 1.6769** | 1.1587*** | 1.1250*** | 0.1059 |        |        |
| Education of mother  | (0.1597) | (0.1816) | (0.1891) | (0.1891) | (0.1894) | (0.1983) |        |        |        |
| Digit ratios of the right hand (DR) |        |        |        |        |        |        |        |        |        |
| Constant     | −3.9884*** | −4.7101*** | −4.4765*** | −4.8746*** | −4.0018** | −2.5118** | −3.1284*** | −4.4502*** | −4.8548*** | −4.0746** |
|             | (1.2445) | (1.2670) | (1.6255) | (1.6614) | (1.7538) | (1.3045) | (1.3195) | (1.6717) | (1.7128) | (1.7603) |
| Log-likelihood | −1706.0219 | −1695.6492 | −1073.8227 | −1038.6709 | −998.9212 | −1710.0307 | −1700.0752 | −1075.6429 | −1040.5814 | −1000.7553 |
| Log-likelihood, constant term only | −1713.7000 | −1713.7000 | −1150.0360 | −1125.6622 | −1110.1811 | −1714.8936 | −1714.8936 | −1151.4123 | −1126.7802 | −1111.3004 |
| Wald chi2   | 2774.2984 | 2171.1505 | 1604.0328 | 1615.9228 | 5262.5675 | 2765.0489 | 2150.4716 | 1498.7610 | 1682.0764 | 5319.5344 |
| Prob > chi2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Pseudo R2   | 0.0045 | 0.0105 | 0.0663 | 0.0773 | 0.1002 | 0.0028 | 0.0086 | 0.0656 | 0.0765 | 0.0995 |
| Number of observations | 1324 | 1324 | 905 | 888 | 877 | 1325 | 1325 | 906 | 889 | 878 |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. Individuals which are not belong to "Asian" or "Caucasian" groups constitute the reference group.

* p < 0.1, ** p < 0.05, *** p < 0.01.
Table 14
Generalized logistic regression output, regression coefficients. Self-identities of nationalities are included. Dependent variable – educational attainment. Females. The subsample created by the first method of the deletion of outliers.

|                | (1)       | (2)       | (3)       | (4)       | (5)       | (6)       | (7)       | (8)       | (9)       | (10)      |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| The first panel|           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | 2.3054 | –1.2371 | –1.2778 | –0.7108 | –1.3931 |           |           |           |           |           |
|                | (2.3051) | (2.1966) | (3.5502) | (3.6452) | (3.9067) |           |           |           |           |           |
| Asian          | 0.4305    | –0.5139   | –0.3691   | –0.5659   | –0.5436   | 0.4565    | –0.5175   | –0.3114   | –0.5186   | –0.4556   |
|                | (1.0320) | (1.0766) | (1.0486) | (1.0485) | (1.1853) | (1.0479)  | (1.0788) | (1.0718) | (1.0772) | (1.2127)  |
| Caucasian      | 1.2099    | 0.6945    | 0.0801    | 0.0181    | –0.1433   | 1.3018    | 0.7160    | 0.1190    | 0.0825    | –0.0609   |
|                | (1.0171) | (1.0254) | (1.0361) | (1.0381) | (1.0648) | (1.0190) | (1.0262) | (1.0438) | (1.0473) | (1.0676)  |
| Age            | –0.0484** | 0.0055    | 0.0090    | 0.0092    | –0.0480** | 0.0068    | 0.0105    | 0.1111    |           |           |
|                | (0.0048) | (0.0169) | (0.0172) | (0.0180) | (0.0051) | (0.0172) | (0.0177) | (0.0182) |           |           |
| Education of father | 1.0062 | –0.0209 | –0.0881 |           |           | 1.0055 | –0.0549 | –0.1230 |           |           |
|                | (0.4458) | (0.4955) | (0.5175) |           |           | (0.4424) | (0.4644) | (0.5166) |           |           |
| Education of mother | 2.2566 | 2.8898*** |           |           |           | 2.2863 | 2.9243* |           |           |           |
|                | (0.7534) | (1.0463) |           |           |           | (0.7598) | (1.0480) |           |           |           |
| Digit ratios of the right hand (DR) |           |           |           |           |           | 5.2527*** | 0.5250 | 1.7431 | 1.9417 | 2.0526 |
|                |           |           |           |           |           | (2.4108) | (2.3479) | (4.6745) | (4.8489) | (4.8488) |
| Asian          | –0.0043  | 6.2824*** | 3.9925    | 3.2084    | 3.9753    | –2.9353   | 4.5068    | 0.9144    | 0.4922    | 0.4632    |
|                | (2.2974) | (2.2678) | (3.8179) | (3.9450) | (4.1794) | (2.3968) | (2.4672) | (4.9488) | (5.1599) | (5.1457)  |
| Caucasian      | 0.3337   | 0.3013    | –0.1976   | –0.2696   | –0.2065   | 0.3472    | 0.3071    | –0.2440   | –0.3170   | –0.2441   |
|                | (0.4067) | (0.4142) | (0.4550) | (0.4566) | (0.4795) | (0.4087) | (0.4171) | (0.4621) | (0.4661) | (0.4829)  |
| Age            | –0.0113** | –0.0049   | –0.0005   | 0.0058    | –0.0116** | –0.0051   | –0.0010   | 0.0059    |           |           |
|                | (0.0035) | (0.0068) | (0.0068) | (0.0073) | (0.0035) | (0.0068) | (0.0067) | (0.0073) |           |           |
| Education of father | 1.3285 | 0.6427    | 0.5392    |           |           | 1.3073    | 0.6021    | 0.5029    |           |           |
|                | (0.1998) | (0.2246) | (0.2437) |           |           | (0.1988) | (0.2262) | (0.2452) |           |           |
| Education of mother | 1.3202 | 1.2882*** |           |           |           | 1.3224   | 1.2935*** |           |           |           |
|                | (0.2566) | (0.2798) |           |           |           | (0.2589) | (0.2812) |           |           |           |
| Digit ratios of the right hand (DR) |           |           |           |           |           | 1.5274 | 1.0130 | –0.6515 | –0.7196 | –1.0845 |
|                |           |           |           |           |           | (1.5824) | (1.5943) | (2.1892) | (2.2667) | (2.2782) |
Table 14 (continued)

|                  | (1)       | (2)       | (3)       | (4)       | (5)       | (6)       | (7)       | (8)       | (9)       | (10)      |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Constant         | -1.1537   | -0.2438   | -0.0711   | -1.0610   | -0.2952   | -0.6767   | 0.4328    | 1.6028    | 1.4108    | 1.6496    |
|                  | (1.5185)  | (1.5582)  | (2.0021)  | (2.1264)  | (2.1425)  | (1.5798)  | (1.6246)  | (2.2141)  | (2.2849)  | (2.2860)  |
| The third panel  |           |           |           |           |           |           |           |           |           |           |
| Digit ratios of  |           |           |           |           |           |           |           |           |           |           |
| the left hand    |           |           |           |           |           |           |           |           |           |           |
| (DL) Asian       | 1.2933    | 0.3369    | -0.8896   | -1.2042   | -1.3108   |           |           |           |           |           |
|                  | (1.4126)  | (1.4461)  | (1.8906)  | (1.9660)  | (1.9976)  |           |           |           |           |           |
| Caucasian        | -0.5741   | -0.7359   | -0.3989   | -0.3589   | -0.0347   | -0.5323   | -0.7006   | -0.3745   | -0.3175   | -0.0132   |
|                  | (0.5427)  | (0.5563)  | (0.5580)  | (0.6022)  | (0.6074)  | (0.5412)  | (0.5570)  | (0.5646)  | (0.6158)  | (0.6239)  |
| Education of     | 0.3226    | 0.2733    | -0.1388   | -0.2053   | -0.5635   | -0.3076   | 0.0953    | -0.1497   | -0.5165   |           |
| father           | (0.3475)  | (0.3564)  | (0.4450)  | (0.4545)  | (0.4804)  | (0.3430)  | (0.3539)  | (0.4426)  | (0.4489)  | (0.4763)  |
| Education of     | -0.0244   | -0.0374   | -0.0360   | -0.0343   | -0.2412   | -0.0377   | -0.0364   | -0.0350   |           |           |
| mother           | (0.0032)  | (0.0062)  | (0.0062)  | (0.0065)  | (0.0032)  | (0.0062)  | (0.0062)  | (0.0065)  |           |           |
| Digit ratios of  | 1.5438    | 1.0364    | 0.9421    | 1.5480    | 1.0423    | 0.9489    |           |           |           |           |
| the right hand   | (0.1608)  | (0.1838)  | (0.1873)  | (0.1606)  | (0.1829)  | (0.1866)  |           |           |           |           |
| (DR) Asian       | 3.0578    | 2.0752    | 1.0620    | 1.5075    | 1.076     |           |           |           |           |           |
|                  | (1.4761)  | (1.4823)  | (2.0298)  | (2.0917)  | (2.1322)  |           |           |           |           |           |
| Caucasian        | -1.4935   | 0.6954    | 2.0437    | 2.2011    | 2.2661    | -3.2550   | 1.0556    | 0.1024    | -0.4994   | -0.1383   |
|                  | (1.4116)  | (1.4706)  | (1.9094)  | (1.9921)  | (2.0188)  | (1.4748)  | (1.5043)  | (2.0500)  | (2.1109)  | (2.1431)  |
| Log-likelihood   | -2122.3269| -2042.7570| -1109.1569| -1080.0024| -1031.6749| -2119.3198| -2043.3170| -1109.3574| -1080.5485| -1031.6670|
| Log-likelihood,  | -2125.4235| -2125.4235| -1199.0797| -1188.6772| -1170.3001| -2125.4235| -2125.4235| -1199.0797| -1188.6772| -1170.3001|
| constant term    |           |           |           |           |           |           |           |           |           |           |
| Wald chi2        | 5.6738    | 207.3747  | 145.1196  | 162.2404  | 221.5683  | 11.8531   | 198.9310  | 145.6110  | 161.6998  | 220.5490  |
| Prob > chi2      | 0.7721    | 0.0000    | 0.0000    | 0.0000    | 0.0000    | 0.2217    | 0.0000    | 0.0000    | 0.0000    | 0.0000    |
| Pseudo R2        | 0.0015    | 0.0389    | 0.0750    | 0.0914    | 0.1185    | 0.0029    | 0.0386    | 0.0748    | 0.0910    | 0.1185    |
| Number of        | 1700      | 1700      | 1039      | 1031      | 1016      | 1700      | 1700      | 1039      | 1031      | 1016      |
| observations     |           |           |           |           |           |           |           |           |           |           |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. Individuals which are not belong to “Asian” or “Caucasian” groups constitute the reference group. In some specifications for females STATA returns errors, outcomes with a predicted probability that is less than 0. Details available upon request.

* p < 0.1, ** p < 0.05, *** p < 0.01.
Table 15
Generalized logistic regression output, regression coefficients. Self-identities of nationalities are included. Dependent variable – educational attainment. Males. The subsample created by the first method of the deletion of outliers.

|                  | (1)       | (2)       | (3)       | (4)       | (5)       | (6)       | (7)       | (8)       | (9)       | (10)      |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| The first panel   |           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | 7.1523**  | 7.1864**  | 6.2690*  | 5.6492    | 5.0875    |           |           |           |           |           |
|                   | (2.8042)  | (2.8233)  | (3.5870)  | (3.5918)  | (3.8211)  |           |           |           |           |           |
| Asian             | 13.6234***| 11.9688***| 13.7520***| 13.2196***| 13.3554***| 13.4621***| 12.6899***| 12.0702***| 13.1740***| 13.3174***|
|                   | (0.3160)  | (0.3585)  | (0.4086)  | (0.4473)  | (0.5689)  | (0.3203)  | (0.3637)  | (0.4020)  | (0.4523)  | (0.5717)  |
| Caucasian         | −0.8834*  | −0.8714   | −1.3357** | −1.1993   | −1.3174** | −0.9552   | −0.9206   | −1.4316** | −1.3054** | −1.4267** |
|                   | (0.4713)  | (0.0132)  | (0.0137)  | (0.0158)  | (0.0158)  | (0.0092)  | (0.0138)  | (0.0144)  | (0.0164)  |           |
| Age               | −0.0172*  | 0.0353*** | 0.0326*   | 0.0387    | −0.0164*  | 0.0376*** | 0.0346*   | 0.0346*   | 0.0405*   |           |
|                   | (0.0091)  | (0.0132)  | (0.0137)  | (0.0158)  | (0.0092)  | (0.0138)  | (0.0144)  | (0.0164)  |           |           |
| Education of father | 1.2508  | 1.0810    | 1.0578    |           |           |           |           |           |           |           |
|                   | (0.4534)  | (0.5082)  | (0.5082)  |           |           |           |           |           |           |           |
| Education of mother | 0.2312  | 0.3857    |           |           |           |           |           |           |           |           |
|                   | (0.4734)  | (0.5081)  |           |           |           |           |           |           |           |           |
| Digit ratios of the right hand (DR) |           |           |           |           |           |           |           |           |           |           |
| Asian             | 0.3231    | 0.2230    | 0.1726    |           |           |           |           |           |           |           |
|                   | (0.5719)  | (0.6783)  | (0.7111)  |           |           |           |           |           |           |           |
| Caucasian         | 0.0414    | 0.0874    | 0.0925    |           |           |           |           |           |           |           |
|                   | (0.3883)  | (0.4030)  | (0.4455)  |           |           |           |           |           |           |           |
| Age               | 0.0072    | −0.0093   | −0.0068   | −0.0046   |           |           |           |           |           |           |
|                   | (0.0043)  | (0.0078)  | (0.0079)  | (0.0084)  |           |           |           |           |           |           |
| Education of father | 1.4745  | 1.3644    | 1.1044    |           |           |           |           |           |           |           |
|                   | (0.2101)  | (0.2390)  | (0.2395)  |           |           |           |           |           |           |           |
| Education of mother | 0.5562  | 0.5275    |           |           |           |           |           |           |           |           |
|                   | (0.2418)  | (0.2481)  |           |           |           |           |           |           |           |           |
| Constant          | −4.9232***| −4.1332***| −5.3626***| −4.6326***| −4.2378***| −4.8261***| −3.4257***| −5.1666***| −5.4764***| −5.1527***|
|                   | (2.7806)  | (2.8004)  | (3.6337)  | (3.6572)  | (3.8454)  | (2.6506)  | (2.6686)  | (3.7449)  | (3.8768)  | (4.0112)  |
| The second panel  |           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | 5.1175***| 5.1184***| 5.1722***| 5.6908***| 5.5759***|           |           |           |           |           |
|                   | (1.7729)  | (1.7720)  | (2.2733)  | (2.2850)  | (2.3627)  |           |           |           |           |           |
| Asian             | −0.3231   | −0.2230   | −0.1726   | −0.4566   | −0.4217   | −0.3518   | −0.2473   | −0.2278   | −0.5139   | −0.4599   |
|                   | (0.5719)  | (0.5735)  | (0.6783)  | (0.7111)  | (0.8941)  | (0.5772)  | (0.5787)  | (0.6885)  | (0.7231)  | (0.9127)  |
| Caucasian         | 0.0414    | 0.0874    | 0.0925    | 0.0145    | 0.0276    | 0.0117    | −0.1224   | 0.0460    | −0.0575   |           |
|                   | (0.3883)  | (0.4030)  | (0.4455)  | (0.4702)  | (0.4001)  | (0.4067)  | (0.4199)  | (0.4591)  | (0.4861)  |           |
| Age               | 0.0072    | −0.0093   | −0.0068   | −0.0046   |           |           |           |           |           |           |
|                   | (0.0043)  | (0.0078)  | (0.0079)  | (0.0084)  |           |           |           |           |           |           |
| Education of father | 1.4745  | 1.6444    | 1.0444    |           |           |           |           |           |           |           |
|                   | (0.2101)  | (0.2390)  | (0.2395)  |           |           |           |           |           |           |           |
| Education of mother | 0.5562  | 0.5275    |           |           |           |           |           |           |           |           |
|                   | (0.2418)  | (0.2481)  |           |           |           |           |           |           |           |           |
| Digit ratios of the right hand (DR) |           |           |           |           |           |           |           |           |           |           |
| Asian             | 4.5405***| 4.5776***| 5.3687***| 6.0048***| 6.5447***|           |           |           |           |           |
|                   | (1.8191)  | (1.8133)  | (2.3437)  | (2.4047)  | (2.5217)  |           |           |           |           |           |

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Table 15 (continued)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Constant | $-4.7121^{***}$ | $-5.0474^{***}$ | $-4.7559^{***}$ | $-5.4009^{**}$ | $-5.2151^{***}$ | $-4.1352^{**}$ | $-4.5156^{**}$ | $-5.8497^{**}$ | $-6.2298^{**}$ |
|     | (1.7680) | (1.7780) | (2.2716) | (2.2826) | (2.3618) | (1.8135) | (1.8175) | (2.3694) | (2.4241) | (2.5339) |
| The third panel |  |  |  |  |  |  |  |  |  |
| Digit ratios of the left hand (DL) | $5.5751^{***}$ | $5.6063^{***}$ | $4.7359^{**}$ | $5.1822^{**}$ | $4.4299^{*}$ | $1.7886$ | $1.7925$ | $2.1973$ | $2.2078$ | $2.2998$ |
| Asian | $0.2154$ | $0.3603$ | $0.4765$ | $0.2366$ | $0.5487$ | $0.2036$ | $0.3482$ | $0.5180$ | $0.2697$ | $0.5702$ |
|     | (0.5646) | (0.5648) | (0.6335) | (0.6142) | (0.7361) | (0.5692) | (0.5696) | (0.6359) | (0.6216) | (0.7726) |
| Caucasian | $-0.3002$ | $-0.3087$ | $-0.4232$ | $-0.3194$ | $-1.0155$ | $-0.2956$ | $-0.3977$ | $-0.3028$ | $-1.0175$ |  |
|     | (0.4014) | (0.3988) | (0.5363) | (0.5943) | (0.6214) | (0.4017) | (0.4003) | (0.5264) | (0.5832) | (0.6095) |
| Age | $0.0098^{*}$ | $-0.0036$ | $0.0008$ | $-0.0003$ | $0.0098^{*}$ | $-0.0037$ | $0.0008$ | $-0.0004$ |  |  |
|     | (0.0041) | (0.0082) | (0.0084) | (0.0087) | (0.0041) | (0.0083) | (0.0085) | (0.0087) |  |  |
| Education of father | $1.5814^{***}$ | $1.0788^{**}$ | $1.0926^{**}$ | $0.1832$ | $0.2144$ | $0.2273$ | $0.1840$ | $0.2189$ | $0.2329$ | $0.9421^{***}$ |
|     | (0.1832) | (0.0082) | (0.0084) | (0.0087) | (0.0041) | (0.0083) | (0.0085) | (0.0087) | (0.2276) | (0.2422) |
| Education of mother | $0.9350^{***}$ | $0.8641^{***}$ | $0.2368$ |  |  |  |  |  |  |
|     | (0.2237) | (0.2368) |  |  |  |  |  |  |  |
| Digit ratios of the right hand (DR) |  |  |  |  |  |  |  |  |  |
|      |  |  |  |  |  |  |  |  |  |
| Constant | $-6.0384^{***}$ | $-6.5300^{***}$ | $-5.5697^{***}$ | $-6.2769^{***}$ | $-5.3185^{***}$ | $-5.8144^{***}$ | $-6.2883^{***}$ | $-8.2901^{***}$ | $-9.8064^{***}$ | $-8.5027^{***}$ |
|     | (1.7878) | (1.8027) | (2.2042) | (2.2130) | (2.3166) | (1.8743) | (1.8810) | (2.3839) | (2.3992) | (2.6163) |
| Log-likelihood | $-1282.3784$ | $-1274.6914$ | $-804.0535$ | $-779.7735$ | $-714.3115$ | $-1283.2537$ | $-1275.9066$ | $-802.3743$ | $-777.9081$ | $-739.3694$ |
| Log-likelihood, constant term only | $-1293.6849$ | $-1293.6849$ | $-862.7502$ | $-843.9370$ | $-831.6926$ | $-1293.6849$ | $-1293.6849$ | $-862.7502$ | $-843.9370$ | $-831.6926$ |
| Wald chi2 | $1938.4443$ | $1522.2746$ | $1343.1041$ | $1277.3790$ | $1267.2616$ | $1829.6738$ | $1641.0251$ | $1082.6532$ | $1313.8004$ | $3241.3021$ |
| Prob > chi2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Pseudo R2 | 0.0087 | 0.0147 | 0.0680 | 0.0760 | 0.1087 | 0.0081 | 0.0137 | 0.0700 | 0.0782 | 0.1110 |
| Number of observations | 1001 | 1001 | 682 | 669 | 661 | 1001 | 1001 | 682 | 669 | 661 |

Note: Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. Individuals which are not belong to “Asian” or “Caucasian” groups constitute the reference group. 

* p < 0.1,
** p < 0.05,
*** p < 0.01.
Table 16
Generalized logistic regression output, regression coefficients. Self-identities of nationalities are included. Dependent variable – educational attainment. Females. The subsample created by the second method of the deletion of outliers.

|                | (1)       | (2)       | (3)       | (4)       | (5)       | (6)       | (7)       | (8)       | (9)       | (10)      |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| The first panel|           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | 3.6479** | 0.5536    | 0.6778    | 0.4110    | 0.4098    |           |           |           |           |           |
| (1.5274)       | (1.5689)  | (2.4601)  | (2.5919)  | (2.5738)  |           |           |           |           |           |           |
| Asian          | 0.0527    | –0.9837   | –0.8884   | –1.0074   | –1.1754   | 0.1260    | –0.9986   | –0.9239   | –1.0737   | –1.2308   |
| (0.7444)       | (0.7849)  | (0.7700)  | (0.7700)  | (0.8589)  | (0.7457)  | (0.7842)  | (0.7862)  | (0.7888)  | (0.8726)  |           |
| Caucasian      | 0.5452    | –0.1005   | –0.6590   | –0.6607   | –0.9326   | 0.5522    | –0.0998   | –0.6930   | –0.7058   | –0.9719   |
| (0.5989)       | (0.6176)  | (0.6235)  | (0.6166)  | (0.6572)  | (0.6056)  | (0.6210)  | (0.6333)  | (0.6259)  | (0.6634)  |           |
| Age            | –0.0497***| 0.0031    | 0.0055    | 0.0065    | –0.0497**| 0.0026    | 0.0048    | 0.0059    |           |           |
| (0.0041)       | (0.0138)  | (0.0144)  | (0.0143)  |           | (0.0041)  | (0.0141)  | (0.0147)  | (0.0146)  |           |           |
| Education of father | 0.9588   | 0.0869    | –0.0363   |           |           | 0.9543    | 0.0795    | –0.0420   |           |           |
| (0.3800)       | (0.4296)  | (0.4715)  |           |           |           | (0.3812)  | (0.4281)  | (0.4701)  |           |           |
| Education of mother | 1.9326   | 2.3501*** |           |           |           | 1.9319    | 2.3451**  |           |           |           |
| (0.6703)       | (0.8314)  |           |           |           |           |           |           |           |           |           |
| Digit ratios of the right hand (DR) | 2.8084   | 0.1024    | –0.1069   | –0.1613   | –1.4092   |           |           |           |           |           |
| (1.6112)       | (1.3420)  | (2.9688)  | (3.0822)  | (3.0427)  |           |           |           |           |           |           |
| Constant       | –1.4450   | 4.4830*** | 2.1187    | 2.2257    | 2.2785    | –0.6143   | 4.9364*** | 3.8932    | 4.2927    | 4.1313    |
| (1.5161)       | (1.6347)  | (2.7031)  | (2.7729)  | (2.8020)  | (1.6040)  | (1.4056)  | (3.2462)  | (3.3586)  | (3.3032)  |           |
| The second panel|           |           |           |           |           |           |           |           |           |           |
| Digit ratios of the left hand (DL) | 1.4872   | 1.0829    | –0.2873   | –0.1445   | –0.4227   |           |           |           |           |           |
| (1.0542)       | (1.0582)  | (1.3572)  | (1.3945)  | (1.4361)  |           |           |           |           |           |           |
| Asian          | –0.2502   | –0.4086   | –0.3672   | –0.3709   | –0.1132   | –0.2619   | –0.4364   | –0.4053   | –0.4154   | –0.1551   |
| (0.4579)       | (0.4778)  | (0.4796)  | (0.4948)  | (0.5288)  | (0.4532)  | (0.4731)  | (0.4853)  | (0.4973)  | (0.5313)  |           |
| Caucasian      | 0.2092    | 0.1513    | –0.1860   | –0.1907   | –0.3077   | 0.2088    | 0.1400    | –0.2135   | –0.2170   | –0.3298   |
| (0.3276)       | (0.3400)  | (0.3828)  | (0.3846)  | (0.3956)  | (0.3301)  | (0.3430)  | (0.3851)  | (0.3866)  | (0.3965)  |           |
| Age            | –0.0128***| –0.0067   | –0.0023   | 0.0011    | –0.0134   | –0.0069   | –0.0025   | 0.0009    |           |           |
| (0.0030)       | (0.0058)  | (0.0059)  | (0.0062)  |           | (0.0030)  | (0.0059)  | (0.0059)  | (0.0062)  |           |           |
| Education of father | 1.3888   | 0.7524    | 0.6910    |           |           | 1.3864    | 0.7426    | 0.6832    |           |           |
| (0.1759)       | (0.2148)  | (0.2276)  |           |           |           | (0.1760)  | (0.2135)  | (0.2261)  |           |           |
| Education of mother | 1.2410   | 1.2462*** |           |           |           | 1.2475    | 1.2499    |           |           |           |
| (0.2444)       | (0.2623)  |           |           |           |           |           |           |           |           |           |
| Digit ratios of the right hand (DR) | 0.3036   | –0.3404   | –1.1884   | –1.1458   | –1.1834   |           |           |           |           |           |
| (1.0618)       | (1.0362)  | (1.3517)  | (1.3946)  | (1.3999)  |           |           |           |           |           |           |
|                  | (1)          | (2)          | (3)          | (4)          | (5)          | (6)          | (7)          | (8)          | (9)          | (10)         |
|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Constant         | -0.7299      | 0.3370       | 1.2004       | 0.7882       | 1.0092       | 0.4510       | 1.7854       | 2.1170       | 1.8056       | 1.7841       |
|                  | (1.0520)     | (1.0827)     | (1.3948)     | (1.4340)     | (1.4748)     | (1.0621)     | (1.0700)     | (1.4003)     | (1.4413)     | (1.4425)     |
| The third panel  |              |              |              |              |              |              |              |              |              |              |
| Digit ratios of the left hand (DL) | 1.1324       | 0.5291       | -0.9077      | -0.8723      | -0.9857      |              |              |              |              |              |
|                  | (0.9998)     | (1.0241)     | (1.3479)     | (1.3685)     | (1.4023)     |              |              |              |              |              |
| Asian            | -0.3786      | -0.5667      | -0.3970      | -0.3171      | -0.2368      | -0.3381      | -0.5561      | -0.4179      | -0.3313      | -0.2371      |
|                  | (0.4657)     | (0.4664)     | (0.4837)     | (0.5103)     | (0.5252)     | (0.4648)     | (0.4874)     | (0.5130)     | (0.5252)     |              |
| Caucasian        | 0.0877       | 0.0240       | -0.2303      | -0.2669      | -0.6146      | 0.1096       | 0.0315       | -0.2507      | -0.2826      | -0.6219      |
|                  | (0.2971)     | (0.3071)     | (0.3695)     | (0.3758)     | (0.3931)     | (0.2968)     | (0.3707)     | (0.3763)     | (0.3929)     |              |
| Age              | -0.0295***   | -0.0409***   | -0.0389***   | -0.0375***   | -0.0251***   | -0.0412***   | -0.0391***   | -0.0377***   |              |              |
|                  | (0.0029)     | (0.0055)     | (0.0055)     | (0.0057)     | (0.0029)     | (0.0055)     | (0.0056)     | (0.0057)     |              |              |
| Education of father | 1.4887**     | 1.0035**     | 0.9254       |              |              |              |              |              |              |              |
|                  | (0.1405)     | (0.1620)     | (0.1637)     |              |              |              |              |              |              |              |
| Education of mother | 0.9598**     | 0.9509**     |              |              |              |              |              |              |              |              |
|                  | (0.1731)     | (0.1768)     |              |              |              |              |              |              |              |              |
| Digit ratios of the right hand (DR) |              |              |              |              |              |              |              |              |              |              |
| Constant         | -1.4314      | 0.4405       | 2.1111       | 1.8927       | 1.9484       | -1.8867*     | 0.4980       | 2.3879       | 2.0018       | 1.7556       |
|                  | (0.9994)     | (1.0446)     | (1.3834)     | (1.4071)     | (1.4381)     | (1.0102)     | (1.0116)     | (1.3417)     | (1.3607)     | (1.3906)     |
| Log – likelihood | -2682.4111   | -2575.0949   | -1409.7966   | -1373.2650   | -1327.1711   | -2681.9169   | -2575.2053   | -1409.6465   | -1373.1288   | -1327.0810   |
| Log-likelihood, constant term only | -2686.3630   | -2686.3630   | 1522.8522    | 1507.8976    | -1487.4098   | -2686.3630   | -2686.3630   | 1522.8522    | -1507.8976   | -1487.4098   |
| Wald chi2        | 7.8176       | 274.2575     | 186.1425     | 203.3881     | 251.3254     | 8.3491       | 276.5028     | 186.1338     | 202.4382     | 250.7580     |
| Prob > chi2      | 0.5526       | 0.0000       | 0.0000       | 0.0000       | 0.0000       | 0.4994       | 0.0000       | 0.0000       | 0.0000       | 0.0000       |
| Pseudo R2        | 0.0015       | 0.0414       | 0.0742       | 0.0893       | 0.1077       | 0.0917       | 0.0414       | 0.0743       | 0.0894       | 0.1078       |
| Number of       | 2106         | 2106         | 1293         | 1283         | 1266         | 2106         | 2106         | 1293         | 1283         | 1266         |
| observations     |              |              |              |              |              |              |              |              |              |              |

**Note:** Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. Individuals which are not belong to "Asian" or "Caucasian" groups constitute the reference group. In some specifications for females STATA returns errors, outcomes with a predicted probability that is less than 0. Details available upon request.

* p < 0.1,
** p < 0.05,
*** p < 0.01.
Table 17
Generalized logistic regression output, regression coefficients. Self-identities of nationalities are included. Dependent variable – educational attainment. Males. The subsample created by the second method of the deletion of outliers.

|                  | (1)       | (2)     | (3)     | (4)     | (5)     | (6)     | (7)     | (8)     | (9)     | (10)    |
|------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Digit ratios of the left hand (DL) |           |         |         |         |         |         |         |         |         |         |
| Asian            | 14.4307***| 12.6778**| 13.2933**| 12.3300**| 14.7755***| 14.3995***| 13.3824**| 14.7293***|         |         |
| Caucasian        | –0.3309   | –0.3343 | –0.7427 | –0.5874 | –0.7193 | –0.3746 | –0.3756 | –0.8044 | –0.6646 | –0.7870 |
| Education of father | 1.0051***| 0.6178  | 0.5899  | 1.0107***| 0.6305*  | 0.6059  | 0.6315  | 0.6531  | 0.6315  |         |
| Education of mother | 0.6687   | 0.3778  | 0.4001  | 0.3411  | 0.3759  | 0.3969  | 0.4051  | 0.4208  |         |         |
| Digit ratios of the right hand (DR) |           |         |         |         |         |         |         |         |         |         |
| Asian            | 0.0825    | 0.1673  | 0.0355  | –0.1459 | 0.1262  | 0.0548  | 0.1356  | 0.0256  | –0.1635 | 0.1198  |
| Caucasian        | 0.2019    | 0.1942  | 0.0481  | 0.2768  | –0.0610 | 0.1796  | 0.1723  | –0.0073 | 0.2052  | –0.1512 |
| Education of father | 1.5008**| 1.1300**| 1.0609**| 1.0609**| 1.5006**| 1.1312**| 1.0530**| 1.2046**| 0.6242  |         |
| Education of mother | 0.6850   | 0.6152  | 0.2127  |         |         |         |         |         |         |         |
| Digit ratios of the right hand (DR) |           |         |         |         |         |         |         |         |         |         |
| Asian            | 1.3825    | 1.4507  | 2.7030  | 2.9438  | 2.8791  |         |         |         |         |         |
| Caucasian        | 1.2761    | 1.2773  | 1.6072  | 1.6328  | 1.6827  |         |         |         |         |         |
### Table 17 (continued)

| (1)       | (2)       | (3)       | (4)       | (5)       | (6)       | (7)       | (8)       | (9)       | (10)      |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| **Constant** |           |           |           |           |           |           |           |           |           |
|           | $-2.4168^*$ | $-2.8686^*$ | $-3.1716^*$ | $-3.5496^{**}$ | $-3.3802^{**}$ | $-1.0236$ | $-1.4077$ | $-2.2809$ | $-2.6692$ | $-2.6844$ |
|           | $(1.2245)$ | $(1.2451)$ | $(1.5805)$ | $(1.6086)$ | $(1.6637)$ | $(1.2714)$ | $(1.2924)$ | $(1.6443)$ | $(1.6631)$ | $(1.7082)$ |
| **The third panel** |           |           |           |           |           |           |           |           |           |
| **Digit ratios of the left hand (DL)** |           |           |           |           |           |           |           |           |           |
|           | $3.6033^{***}$ | $3.8118^{***}$ | $3.7738^{**}$ | $3.8872^{**}$ | $3.1692^*$ |           |           |           |           |
|           | $(1.2682)$ | $(1.2690)$ | $(1.6164)$ | $(1.6512)$ | $(1.7366)$ |           |           |           |           |
| **Asian** |           |           |           |           |           |           |           |           |           |
|           | $0.0921$ | $0.2280$ | $-0.0059$ | $-0.1117$ | $0.0753$ | $0.1026$ | $0.2344$ | $0.0529$ | $-0.0543$ | $0.1063$ |
|           | $(0.5174)$ | $(0.5088)$ | $(0.6623)$ | $(0.5718)$ | $(0.6350)$ | $(0.5121)$ | $(0.5060)$ | $(0.6736)$ | $(0.5827)$ | $(0.6552)$ |
| **Caucasian** |           |           |           |           |           |           |           |           |           |
|           | $-0.0893$ | $-0.0894$ | $-0.1792$ | $-0.0154$ | $-0.6953$ | $-0.1221$ | $-0.1233$ | $-0.2448$ | $-0.0898$ | $-0.7698$ |
|           | $(0.3222)$ | $(0.3187)$ | $(0.4320)$ | $(0.4556)$ | $(0.5209)$ | $(0.3287)$ | $(0.3256)$ | $(0.4320)$ | $(0.4586)$ | $(0.5263)$ |
| **Age** |           |           |           |           |           |           |           |           |           |
|           | $0.0106$ | $-0.0053$ | $-0.0011$ | $-0.0003$ | $0.0103$ | $-0.0054$ | $-0.0013$ | $-0.0006$ |           |           |
|           | $(0.0036)$ | $(0.0072)$ | $(0.0073)$ | $(0.0075)$ | $(0.0036)$ | $(0.0072)$ | $(0.0074)$ | $(0.0075)$ |           |           |
| **Education of father** |           |           |           |           |           |           |           |           |           |
|           | $1.6482^{**}$ | $1.1269$ | $1.0895$ | $1.6597^{***}$ | $1.1336^{***}$ | $1.0995^{***}$ |           |           |           |           |
|           | $(0.1599)$ | $(0.1821)$ | $(0.1899)$ | $(0.1603)$ | $(0.1833)$ | $(0.1917)$ |           |           |           |           |
| **Education of mother** |           |           |           |           |           |           |           |           |           |
|           | $1.0201^{***}$ | $0.9701^{***}$ |           | $(0.1026)$ | $(0.1909)$ | $(0.2005)$ |           |           |           |           |
| **Digit ratios of the right hand (DR)** |           |           |           |           |           |           |           |           |           |
|           | $-4.0506^{***}$ | $-4.7529^{***}$ | $-4.5574^{***}$ | $-4.9448^{***}$ | $-4.1824^{**}$ | $-2.9922^{**}$ | $-3.5993^{***}$ | $-5.0568^{***}$ | $-5.5885^{***}$ | $-4.8331^{***}$ |
|           | $(1.2656)$ | $(1.2858)$ | $(1.6516)$ | $(1.6883)$ | $(1.7796)$ | $(1.3023)$ | $(1.3142)$ | $(1.7005)$ | $(1.6919)$ | $(1.7670)$ |
| **Log-likelihood** |           |           |           |           |           |           |           |           |           |
|           | $-1696.9798$ | $-1687.0315$ | $-1687.0315$ | $-1699.3774$ | $-1699.3774$ | $-1689.7042$ | $-1689.7042$ | $-1070.4478$ | $-1035.0376$ | $-995.2256$ |
| **Log-likelihood, constant term only** |           |           |           |           |           |           |           |           |           |
|           | $-1704.9478$ | $-1704.9478$ | $-1145.2661$ | $-1120.8928$ | $-1103.4140$ | $-1704.9478$ | $-1704.9478$ | $-1145.2661$ | $-1120.8928$ | $-1103.4140$ |
| **Wald chi2** |           |           |           |           |           |           |           |           |           |
|           | $2765.1351$ | $2164.2124$ | $1627.1806$ | $1370.7267$ | $5243.5736$ | $2756.5703$ | $2222.7958$ | $1691.3757$ | $1729.6323$ | $5324.7872$ |
| **Prob > chi2** |           |           |           |           |           |           |           |           |           |
|           | $0.0000$ | $0.0000$ | $0.0000$ | $0.0000$ | $0.0000$ | $0.0000$ | $0.0000$ | $0.0000$ | $0.0000$ | $0.0000$ |
| **Pseudo R2** |           |           |           |           |           |           |           |           |           |
|           | $0.0047$ | $0.0105$ | $0.0656$ | $0.0768$ | $0.1001$ | $0.0033$ | $0.0089$ | $0.0653$ | $0.0766$ | $0.0997$ |
| **Number of observations** |           |           |           |           |           |           |           |           |           |
|           | $1318$ | $1318$ | $901$ | $884$ | $873$ | $1318$ | $1318$ | $901$ | $884$ | $873$ |

**Note:** Robust standard errors in parentheses. Specifications (5) and (10) include secondary school regional dummies, according to settlement types. Individuals which are not belong to “Asian” or “Caucasian” groups constitute the reference group.

$p < 0.1$,

$p < 0.05$,

$p < 0.01$. 


Reference

[1] (http://www.cpc.unc.edu/projects/rlms-hse/project).