Working Paper 1: Returns to Education in the Russian Federation - Zeroth Draft *

Ekaterina Melianova, Suhas D. Parandekar, Harry A. Patrinos, Artëm Volgin Sunday 24th November, 2019

Abstract

This is the first cut at Working Paper 1 (of proposed 3 working papers) on the Returns of Education in the Russian Federation. The paper shows an interesting pattern of variation in the returns to education from 1994-2018. The paper shows the co-movement of returns to higher education and the return to vocational education. From a policy viewpoint, it shows that returns to education may be strongly influencing decisions of individuals or families regarding their future education trajectories. Policy initiatives seeking to influence enrollment trends at specific educational levels would need to consider the empirical antecedents.

RLMS Results

Data

To estimate returns to education in Russia we employed the Russian Longitudinal Monitoring Survey (RLMS) - the longest panel survey of individuals and households in Eastern Europe and Asia and the only representative Russian survey with a sizable panel component allowing for a dynamic analysis (Kozyreva and Sabirianova Peter, 2015). The data are notable for their reliability, diversity, and applicability to a variety of research questions. The RLMS embraces information on people's income and expenditure structure, their material well-being, educational and occupational behavior, health state and nutrition, migration, etc. RLMS sampling procedures have been thoroughly and extensively described elsewhere (Kozyreva and Sabirianova Peter, 2015). The present research uses all 23 waves (1994 - 2018) that are available as of Sunday 24th November, 2019. The sub-sample selected for empirical investigation in this paper consists of working individuals aged 25-64 who are out of school and have positive labor market experience and income.

^{*}Arranged in alphabetical order of author last names. The entire code used to generate the graphs and tables presented in this paper is available on bitbucket at https://bitbucket.org/zagamog/edreru/src/master/, starting from the raw RLMS data graciously provided in the public domain by the National Research University-Higher School of Economics (HSE).

Methods

Our empirical analysis pertains to the examination of a slightly modified basic specification of a mincer-type wage equation (Mincer, 1974). We present results for the general working population of the Russian Federation aged 25-64 as well as by gender and nationality. The specification of focus is as follows:

$$Log(Wage) = b_0 + b_1 \cdot Educ + b_2 \cdot Exp + b_3 \cdot Exp^2 + b_4 \cdot Gender + b_5 \cdot Nationality + \epsilon$$

where Log(Wage) is a logarithm of monthly wage, Educ stands for the highest attained level of education, Exp and Exp^2 reflect the years of working experience and its quadratic term respectively, Gender is a dummy variable for gender, Nationality represents a person's nationality, b_0 is an intercept, $b_1...b_n$ are the respective slope estimates, ϵ refers to a normally distributed error term.

Measures

Dependent variable

For the dependent variable we used the logarithm of an average monthly wage within the past year on a person's primary job (J13.2 variable in the RLMS dataset). If a person had an additional job, the maximum wage value among the two (J13.2 and J40) was selected for the analysis. In the waves from 1994 to 1996 the above mentioned question was absent; for those waves we exploited a variable about the average amount of money earned by a respondent within the past 30 days (J10) as a reasonable approximation.

Independent variables

We distinguished 3 categories for the **education** variable (EDUC): (1) secondary, (2) vocational, and (3) higher. Incomplete levels were incorporated into the respective upper categories (e.g., incomplete higher - into higher). We are interested in exploring returns to vocational and higher education. Estimations of premiums to primary and secondary schooling levels are technically unreachable to us since the number of adults without primary education and the number of adults with only primary level are minuscule in the general population.

Construction of experience variable

Absence of data regarding a person's actual experience profile often compels researchers to employ a heuristic such as experience is equal to age less the official age of entrance into school and less the duration of schooling in years. However, this method introduces measurement error that drives imprecision in results, especially important if we want to compare changes in the rate of returns to education over time. Fortunately, RLMS is a panel data with most individuals surveyed over multiple years, which allows the creation of a factual experience variable. There is considerable attrition in the data over time, with like for like replacements of households to maintain national representativeness of

the sample. RLMS also follows the somewhat innovative practice of continuing to sample a dwelling if the household residing in the dwelling has moved away; a sampling practice which implies an increasing sample size over time. Another implication of the sampling scheme is that computing labor market experience is a bit complicated and necessitates some assumptions and imputations that are explained below.

To create a variable displaying a person's **experience** we leveraged four questions on the year and a month of starting the primary job and the month of starting an additional job, if applicable (J5A, J5B, J35.2Y, and J25.2M). Based on these variables and the information of the interview date, a labor market experience variable was generated for each unique respondent in the sample by summing up his or her experience registered *across* RLMS waves. If an employed individual had missing values on a date of his or her start of work in a particular survey year, and the individual had appeared at any time in a previous year, the first non-missing record from previous waves was chosen. If only the year of a job start was provided, we standardized computation by imputing the month to be January of that year. In cases of the absence of a valid answer with regard to both year and month of job start in both primary and additional job in all RLMS waves a person was surveyed, such cases (< 1%) were dropped from the analysis. List-wise deletion strategy was also applied to the observations with "negative" experience (< 1%) when according to one's responses a job started allegedly "after" the interview occurred 1

A routine was therefore elaborated for detecting and fixing inconsistent responses to the questions about experience. The 'quality control' on the experience variable revealed two opposing apparent recollection errors:

- individuals whose starting date of a first job became at a later date over successive waves (e.g., an individual said in 2001 that she started working in 2000; the same individual in 2005 said she started working in 2002);
- 2. individuals, naming an earlier job starting date compared to the mentioned preceding dates (e.g., a respondent in 2005 said he had started to work in 2000, but in 2001 he or she replied 1995 had been in fact the beginning year of his or her working activity).

Ideally, people would have perfect recall and not give inconsistent responses about their job history over time. However, we found inconsistent responses for 52% of unique respondents or 40% of instances in the pooled RLMS database (1994 - 2018). In both situations (whether computed experience increased or decreased due to different recollections of start date of first job), the routine used in this paper prioritizes earlier responses, based on the reasoning that memory fades over time. The method used in this paper is not able to eliminate the error, but dealing with it in a consistent manner appears a better approach than simply imputing an experience variable assuming a person started working since finishing education and has been working ever since.

Table 1 shows the results of averaging all the three ways of generating labor market experience by cohorts of respondents aggregated on the basis of the number of incidences in

¹This step is necessitated because of the mixed panel nature of RLMS. Without proper accounting of experience, with education at a fixed level and changing income for an individual cross years, there would be avoidable noise and possibly bias introduced on the education coefficient in the Mincerian equation.

the RLMS survey. The first column shows that there were 6667 individuals who appeared only once in the RLMS, 3463 who appeared twice (though could have been different pairs of years), 2793 who appeared three times and so on until the 119 individuals who appeared 23 times in the survey. Table 1 shows the mean values of the experience variable in years as computed by three methods: (EX1) The method outlined above, chosing earliest available data in case of inconsistencies; (EX2) method looking at each year of data independently, ignoring any inconsistencies, and (EX3) Naïve estimates which is simply the age - duration of schooling - 6.

The table demonstrates that the two corresponding versions of experience computed with (EX1) and without (EX2) inconsistency correction gradually increase with the rise of the number of instances an individual appeared in RLMS. These differences are mostly statistically significant as can be seen from the displayed p-values for a t-test of no significant difference. Overall, this indicates the necessity of harmonizing the data in the described manner.

Table 1: Comparison between Initial and Corrected Versions of the Experience Variable

Cohort - number of appearances in RLMS	N indi- viduals	Experience correct- ing error (EX1)	Experience ignoring error (EX2)	Experience naïve (EX3)	N instances	t-tests EX1- EX2: pvalue	t-tests EX1- EX3: pvalue
01	6667	05.91	06.25	18.91	6667	0.01	0.00
02	3463	06.53	06.97	19.26	6926	0.02	0.00
03	2793	07.60	08.10	20.41	8379	0.03	0.00
04	2556	08.41	08.90	20.35	10224	0.04	0.00
05	1729	07.99	08.82	20.35	8645	0.00	0.00
06	1532	08.56	09.43	20.02	9192	0.00	0.00
07	1273	09.41	10.36	20.45	8911	0.00	0.00
08	1177	10.14	10.88	21.13	9416	0.02	0.00
09	910	10.66	11.75	21.32	8190	0.00	0.00
10	597	10.58	12.08	21.56	5970	0.00	0.00
11	541	10.52	12.04	20.85	5951	0.00	0.00
12	495	11.50	12.93	22.42	5940	0.00	0.00
13	508	12.27	13.95	22.46	6604	0.00	0.00
14	325	12.63	14.10	22.47	4550	0.01	0.00
15	339	13.60	15.28	22.95	5085	0.01	0.00
16	245	12.59	15.28	22.07	3920	0.00	0.00
17	235	13.77	15.99	22.91	3995	0.00	0.00
18	216	14.47	15.72	22.97	3888	0.06	0.00
19	212	14.52	16.34	23.67	4028	0.00	0.00
20	153	14.97	16.84	23.06	3060	0.00	0.00
21	96	16.34	17.13	25.34	2016	0.33	0.00
22	97	17.05	18.92	25.06	2134	0.04	0.00
23	119	19.63	20.88	25.87	2737	0.16	0.00

Finally, two socio-demographic variables were incorporated into the analysis, namely gender and nationality. Gender is included in the specification in the form of a dichotomous dummy variable with "1" standing for females, "0" - for males. Nationality is reflected with a 1 if a person did not identify him/herself as Russian and 0 if Russian.

Findings from Estimation of Mincerian Equation

Figure 1, panel (a) displays rates of returns to higher and vocational education (as compared to secondary education) in Russia in 1994-2018. The results suggest that on average wage premiums to university education in Russia are roughly 3-5 times greater than to vocational schooling. Overall, there is a moderate curved growth in both return types, achieving their peak in the early 2000s (83% for higher education and 26% for vocational education compared to the average earnings of workers with the secondary level), which is followed by a downward pattern (see Figure 1). The interesting pattern to note from panel (a) is the apparent co-movement of vocational education and higher education - the higher education smoothing curve turns a bit more sharply than the one for vocational education, but their movement is matching, even at second order levels of smoothness (SP note to team - we need to superimpose with lighter line showing unsmoothed points). Further, even though higher education premium remains much above the premium for vocational education, there is a pereceptible narrowing of the difference in recent years. Panel (b) which is drawn from a presentation made by Marina Telezhkina at the WB-HSE Summer School on the Economics of Education in July 2019, shows the interesting pattern of higher education enrollment rates for population of 17-25 year olds. Figure 1(b) shows the downturn in returns reflected in enrollments, with the peak in enrollments coming about 10 years later.

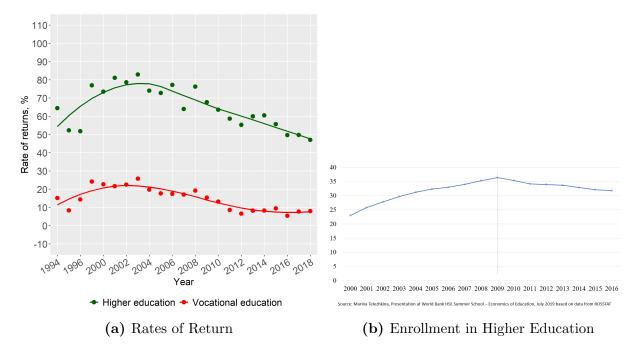


Figure 1: Rates of Returns to Higher and Vocational Education in Russia, RLMS 1994-2018

When we look at the same data with information by gender, it is quite interesting that gender-based trends in Russia have a different shape across time with regard to schooling premiums. Though the percentage fluctuated slightly from year to year, there were about 55% females in the sample compared to 45% males. Particularly, males' payoffs to higher education (varying from 45% to 76%) turn out to be on a slightly decreasing slope, whereas women' returns are described by an inversely U-shaped pattern, reaching their maximum of 104% in 2001. Within the last roughly 5 years wage premiums to higher education for

women have stabilized around the level of men (50%). Gender wise enrollment rates in higher education (not shown) ten years later appears to match the differences in rates of return, strengthening the hypothesis that market rates of return to education in Russia do indeed influence individual continuing school decisions.

A similar comparative picture is observed with respect to vocational education, however, the described regularities are way less pronounced (see Figure 2): returns for males are almost flat within the time period under focus and the parabolic association for females is tangibly less concave. The overall outcome concerning payoffs to schooling isolated by gender has been confirmed in a similar fashion by past studies (Cheidvasser and Benítez-Silva, 2007), etc.

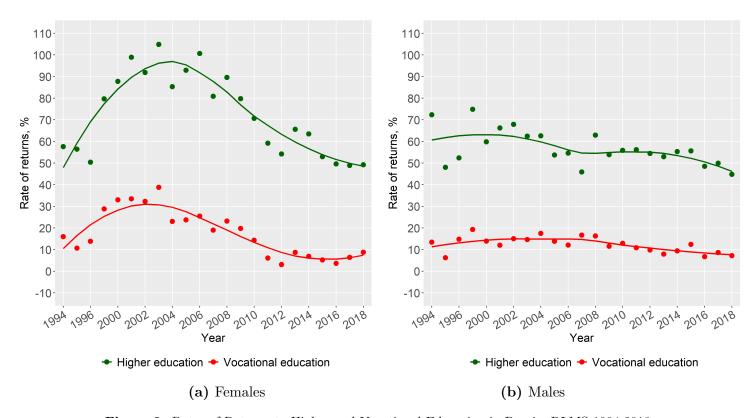


Figure 2: Rates of Returns to Higher and Vocational Education in Russia, RLMS 1994-2018

Looking at the pattern by nationality, there were approximately 15% non Russian nationals or immigrants in the RLMS database. We find that for Russian nationals, the payoffs to higher and vocational education are characterized by a pattern almost identical to the one uncovered for the whole population. As for non-Russians, the estimates of wage advantages regarding people with university education level compared to those with only secondary level are not statistically significant in the majority of time periods investigated (except for 2002-2006 and 2008). Nevertheless, the payoffs to vocational education for those who identified themselves as non-Russians are significant and the respective time trend is loosely distinguishable from the one registered for Russians. In other words, nationality seem to affect returns to higher education, but does not play a similar part with respect to vocational education.

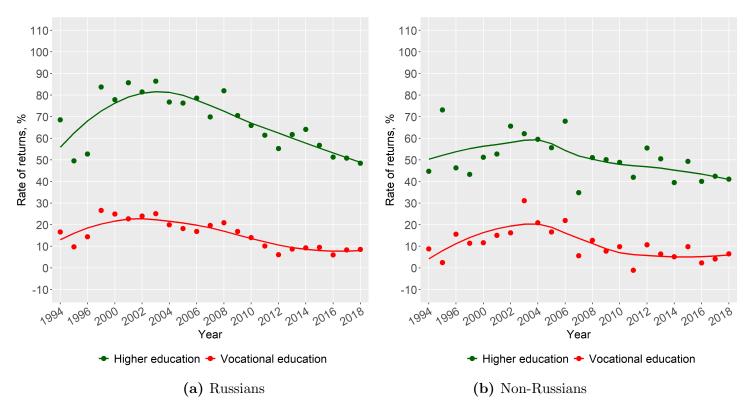


Figure 3: Rates of Returns to Higher and Vocational Education in Russia, RLMS 1994-2018

1 Extension: Investigation of Gender dimension and depreciation?

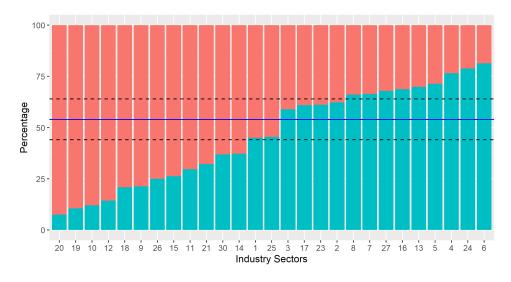


Figure 4: Distribution of Employment in RLMS 2018 by Industry and Gender

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Table 2: Industries by Strength of Female Proportion: RLMS 2018

Category	Sector	Female	Female Percentage	Total
		Sample		Sample
Female	Social Services	37	92.5%	40
dominated	Other	17	89.5%	19
	Education	609	88.0%	692
	Public Health	412	85.7%	481
	Real Estate Operations	19	79.2%	24
	Government and Public Administration	155	78.7%	197
	General Public Services	15	75.0%	20
	Finance	107	73.8%	145
	Science, Culture	100	70.4%	142
	Jurisprudence	19	67.9%	28
Neutral	Mass Media, Telecommunications	24	63.2%	38
	Trade, Consumer Services	738	62.8%	1175
	Light industry, Food industry	209	55.0%	380
	Sports, Tourism, Entertainment	18	54.5%	33
Male	Miltary Industrial Complex	67	41.1%	163
dominated	Housing and Community Services	95	39.1%	243
	Chemical Industry	14	38.9%	36
	Civil Machine Construction	51	37.8%	135
	Agriculture	79	33.9%	233
	Transportation, Communication	186	33.6%	553
	Information Technology	9	32.1%	28
	Energy or Power Industry	41	31.3%	131
	Army, Internal Security	90	30.1%	299
	Other Heavy Industry	60	28.7%	209
	Oil and Gas Industry	52	23.5%	221
	Wood, Timber, Forestry	7	21.2%	33
	Construction	73	18.7%	391
	Total	3303	54.3%	6089

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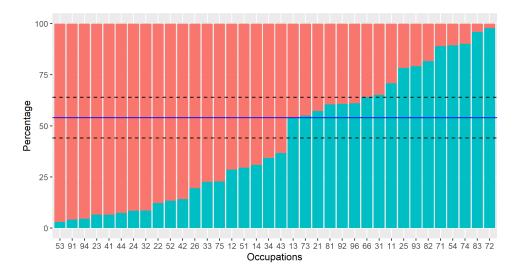


Figure 5: Distribution of Employment in RLMS 2018 by Industry and Gender

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This is a Russian reference. досвыдания Now I cite (Carnoy et al., 2012). And now Russian (Лукьянова, 2010).

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Appendix

1 Personal Care Workers 97 97.0% 2 Cleaners and Helpers 163 95.9% 3 Food Preparation Assistants 21 95.5% 4 Teaching Professionals 370 93.4% 5 General and Keyboard Clerks 71 93.4% 6 Other Clerical Support Workers 25 92.6% 7 Business and Administration Professionals 192 91.5% 8 Health Associate Professionals 192 91.4% 9 Health Professionals 192 91.4% 9 Health Professionals 192 91.5% 10 Sales Workers 350 86.6% 11 Customer Services Clerks 67 85.9% 12 Legal, Social and Cultural Professionals 169 80.5% 13 Business and Administration Associate Professionals 16 980.5% 14 Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers 51 77.3% 16 Personal Services Workers		ilab	tfem	pfem	tall
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4 Teaching Professionals 370 93.4% 5 General and Keyboard Clerks 71 93.4% 6 Other Clerical Support Workers 25 92.6% 7 Business and Administration Professionals 97 91.5% 8 Health Associate Professionals 192 91.4% 9 Health Professionals 79 87.8% 10 Sales Workers 350 86.6% 11 Customer Services Clerks 67 85.9% 12 Legal, Social and Cultural Professionals 169 80.5% 13 Business and Administration Associate Professionals 169 80.5% 14 Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers 517 77.4% 15 Administrative and Commercial Managers 25 71.4% 16 Personal Services Workers 172 70.5% 17 Hospitality, Retail and Other Services Managers 38 69.1% 18 Legal, Social, Cultural and Related Associate Professionals 100 63.3% 20 Production and Specialized Services Managers 139 46.0% 21 Handicraft and Printing Workers 9 45.0%	2	Cleaners and Helpers	163	95.9%	170
5 General and Keyboard Clerks 71 93.4% 6 Other Clerical Support Workers 25 92.6% 7 Business and Administration Professionals 97 91.5% 8 Health Associate Professionals 192 91.4% 9 Health Professionals 79 87.8% 10 Sales Workers 350 86.6% 11 Customer Services Clerks 67 85.9% 12 Legal, Social and Cultural Professionals 169 80.5% 13 Business and Administration Associate Professionals 169 80.5% 14 Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers 177 77.4% 15 Administrative and Commercial Managers 25 71.4% 16 Personal Services Workers 172 70.5% 17 Hospitality, Retail and Other Services Managers 38 69.1% 18 Legal, Social, Cultural and Related Associate Professionals 100 63.3% 20 Production and Specialized Services Managers 13	3	Food Preparation Assistants	21	95.5%	22
6 Other Clerical Support Workers 25 92.6% 7 Business and Administration Professionals 97 91.5% 8 Health Associate Professionals 192 91.4% 9 Health Professionals 79 87.8% 10 Sales Workers 350 86.6% 11 Customer Services Clerks 67 85.9% 12 Legal, Social and Cultural Professionals 169 80.5% 13 Business and Administration Associate Professionals 517 77.4% 14 Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers 51 77.3% 15 Administrative and Commercial Managers 25 71.4% 16 Personal Services Workers 172 70.5% 17 Hospitality, Retail and Other Services Managers 38 69.1% 18 Legal, Social, Cultural and Related Associate Professionals 69 65.7% 20 Production and Specialized Services Managers 139 46.0% 21 Handicraft and Printing Workers 9 45.0% 22 Science and Engineering Professionals 101 42.8% 23 Stationary Plant and Machine Operators 72 39.6	4	Teaching Professionals	370	93.4%	396
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8 Health Associate Professionals 192 91.4% 9 Health Professionals 79 87.8% 10 Sales Workers 350 86.6% 11 Customer Services Clerks 67 85.9% 12 Legal, Social and Cultural Professionals 169 80.5% 13 Business and Administration Associate Professionals 517 77.4% 14 Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers 51 77.3% 15 Administrative and Commercial Managers 25 71.4% 16 Personal Services Workers 172 70.5% 16 Personal Services Workers 172 70.5% 17 Hospitality, Retail and Other Services Managers 38 69.1% 18 Legal, Social, Cultural and Related Associate Professionals 100 63.3% 20 Production and Specialized Services Managers 139 46.0% 21 Handicraft and Printing Workers 9 45.0% 22 Science and Engineering Professionals 101	6	Other Clerical Support Workers	25	92.6%	27
9 Health Professionals 79 87.8% 10 Sales Workers 350 86.6% 11 Customer Services Clerks 67 85.9% 12 Legal, Social and Cultural Professionals 169 80.5% 13 Business and Administration Associate Professionals 517 77.4% 14 Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers 51 77.3% 15 Administrative and Commercial Managers 25 71.4% 16 Personal Services Workers 172 70.5% 17 Hospitality, Retail and Other Services Managers 38 69.1% 18 Legal, Social, Cultural and Related Associate Professionals 69 65.7% 19 Numerical and Material Recording Clerks 100 63.3% 20 Production and Specialized Services Managers 139 46.0% 21 Handicraft and Printing Workers 9 45.0% 22 Science and Engineering Professionals 101 42.8% 23 Stationary Plant and Machine Operators 72 39.6% 24 Agricultural, Forestry and Fishery Labourers 11 39.3% 25 Refuse Workers and Other Elementary Workers	7	Business and Administration Professionals	97	91.5%	106
10 Sales Workers 350 86.6% 11 Customer Services Clerks 67 85.9% 12 Legal, Social and Cultural Professionals 169 80.5% 13 Business and Administration Associate Professionals 517 77.4% 14 Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers 51 77.3% 15 Administrative and Commercial Managers 25 71.4% 16 Personal Services Workers 172 70.5% 16 Personal Services Workers 172 70.5% 17 Hospitality, Retail and Other Services Managers 38 69.1% 18 Legal, Social, Cultural and Related Associate Professionals 100 63.3% 20 Production and Specialized Services Managers 139 46.0% 20 Production and Specialized Services Managers 139 46.0% 21 Handicraft and Printing Workers 9 45.0% 22 Science and Engineering Professionals 101 42.8% 23 Stationary Plant and Machine Operator	8	Health Associate Professionals	192	91.4%	210
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 Science and Engineering Associate Professionals 120 34.9% Chief Executives, Senior Officials and Legislators Information and Communications Technology 15 21.7% Professionals Labourers in Mining, Construction, Manufacturing and Transport Assemblers 11 18.3% Building and Related Trades Workers (excluding 23 11.1% Electricians) Protective Services Workers 23 10.7% Electrical and Electronic Trades Workers 16 9.9% 	25	Refuse Workers and Other Elementary Workers	30	39.0%	77
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36 Metal, Machinery and Related Trades Workers 6 2.2%		-			267
*	34 35	Electrical and Electronic Trades Workers Drivers and Mobile Plant Operators	16 23	9.9% $4.1%$	215 162 558

Table 3: Results of Mincer Analysis, RLMS 1994

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.141***	0.126**	0.149***	0.153***	0.085
	(0.042)	(0.064)	(0.055)	(0.046)	(0.102)
Higher education	0.498***	0.544***	0.455***	0.522***	0.370***
	(0.047)	(0.072)	(0.062)	(0.051)	(0.121)
Experience	0.007	0.008	0.004	0.001	0.036***
_	(0.005)	(0.008)	(0.007)	(0.006)	(0.013)
Experience squared	-0.0002	-0.0004	0.0001	0.00000	-0.001**
-	(0.0002)	(0.0003)	(0.0002)	(0.0002)	(0.0004)
Non-Russian	-0.004	-0.056	0.042		
	(0.045)	(0.069)	(0.059)		
Female	-0.499***			-0.513***	-0.438***
	(0.033)			(0.036)	(0.085)
Constant	12.104***	12.132***	11.588***	12.128***	11.979***
	(0.046)	(0.065)	(0.059)	(0.050)	(0.110)
Observations	3,041	1,394	1,647	2,564	477
\mathbb{R}^2	0.103	0.049	0.041	0.109	0.083
Adjusted R ²	0.101	0.045	0.038	0.108	0.073
Residual Std. Error	0.906	0.957	0.858	0.905	0.906
F Statistic	57.786***	14.271***	14.057^{***}	62.886***	8.534***

Table 4: Results of Mincer Analysis, RLMS 1995

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.081* (0.044)	0.060 (0.066)	0.101* (0.060)	0.092* (0.049)	0.023 (0.109)
Higher education	0.421*** (0.048)	0.392*** (0.072)	0.447*** (0.066)	0.402*** (0.053)	0.549*** (0.127)
Experience	0.002 (0.006)	-0.002 (0.009)	0.006 (0.008)	0.002 (0.006)	0.004 (0.015)
Experience squared	-0.0001 (0.0002)	-0.00004 (0.0003)	-0.0001 (0.0002)	-0.0001 (0.0002)	-0.00005 (0.001)
Non-Russian	-0.041 (0.047)	-0.061 (0.070)	-0.021 (0.064)		
Female	-0.431^{***} (0.035)			-0.437^{***} (0.038)	-0.386^{***} (0.090)
Constant	12.882*** (0.049)	12.936*** (0.067)	12.400*** (0.064)	12.893*** (0.052)	12.790*** (0.118)
Observations R ²	2,690 0.085	1,235 0.032	1,455 0.040	2,262 0.082	428 0.105
Adjusted R ² Residual Std. Error F Statistic	0.083 0.897 41.523***	0.028 0.923 8.181***	0.037 0.875 12.128***	0.080 0.891 40.396***	0.094 0.925 9.873***

 Table 5: Results of Mincer Analysis, RLMS 1996

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.134** (0.052)	0.138* (0.080)	0.129* (0.069)	0.134** (0.058)	0.145 (0.118)
Higher education	0.417*** (0.056)	0.421*** (0.086)	0.408*** (0.074)	0.423*** (0.062)	0.381*** (0.133)
Experience	$0.008 \\ (0.006)$	$0.008 \\ (0.010)$	0.007 (0.008)	$0.007 \\ (0.007)$	0.019 (0.018)
Experience squared	-0.0004^* (0.0002)	-0.001^* (0.0003)	-0.0002 (0.0003)	-0.0003 (0.0002)	-0.001 (0.001)
Non-Russian	0.039 (0.055)	0.043 (0.083)	0.034 (0.074)		
Female	-0.477^{***} (0.039)			-0.475^{***} (0.043)	-0.499^{***} (0.100)
Constant	13.208*** (0.059)	13.230*** (0.084)	12.713*** (0.075)	13.205*** (0.064)	13.245*** (0.130)
Observations R ²	2,281 0.087	1,033 0.036	1,248 0.029	1,941 0.084	340 0.104
Adjusted R ² Residual Std. Error F Statistic	0.084 0.929 35.992***	0.031 0.976 7.709***	0.025 0.888 7.501***	0.082 0.934 35.671***	0.091 0.906 7.774***

Table 6: Results of Mincer Analysis, RLMS 1998

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.217***	0.176***	0.253***	0.236***	0.108
	(0.037)	(0.054)	(0.050)	(0.040)	(0.093)
Higher education	0.571***	0.559***	0.586***	0.608***	0.360***
	(0.041)	(0.061)	(0.054)	(0.044)	(0.106)
Experience	0.015***	0.010	0.020***	0.014***	0.022*
-	(0.005)	(0.007)	(0.006)	(0.005)	(0.011)
Experience squared	-0.0004***	-0.0004*	-0.0004**	-0.0004**	-0.001*
	(0.0002)	(0.0002)	(0.0002)	(0.0002)	(0.0003)
Non-Russian	-0.032	-0.073	-0.0004		
	(0.038)	(0.059)	(0.049)		
Female	-0.470^{***}			-0.483***	-0.406***
	(0.028)			(0.030)	(0.071)
Constant	6.364***	6.447***	5.817***	6.358***	6.373***
	(0.043)	(0.061)	(0.057)	(0.046)	(0.107)
Observations	3,101	1,434	1,667	2,614	487
\mathbb{R}^2	0.133	0.064	0.079	0.141	0.095
Adjusted R ²	0.131	0.061	0.076	0.140	0.086
Residual Std. Error	0.768	0.806	0.733	0.767	0.770
F Statistic	79.074***	19.512***	28.374***	85.755***	10.119***

Table 7: Results of Mincer Analysis, RLMS 2000

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.205***	0.131**	0.285***	0.222***	0.110
	(0.039)	(0.056)	(0.053)	(0.042)	(0.101)
Higher education	0.551***	0.469***	0.630***	0.576***	0.413***
	(0.043)	(0.064)	(0.057)	(0.046)	(0.113)
Experience	0.009^{*}	0.001	0.016**	0.008	0.014
	(0.005)	(0.008)	(0.007)	(0.006)	(0.016)
Experience squared	-0.0002	-0.0002	-0.0002	-0.0002	-0.0004
	(0.0002)	(0.0003)	(0.0002)	(0.0002)	(0.001)
Non-Russian	-0.001	-0.016	0.002		
	(0.042)	(0.065)	(0.055)		
Female	-0.534***			-0.536***	-0.511***
	(0.030)			(0.032)	(0.081)
Constant	7.071***	7.207***	6.398***	7.059***	7.120***
	(0.046)	(0.065)	(0.062)	(0.049)	(0.123)
Observations	3,213	1,475	1,738	2,765	448
\mathbb{R}^2	0.128	0.042	0.078	0.133	0.104
Adjusted R ²	0.127	0.038	0.075	0.131	0.094
Residual Std. Error	0.830	0.861	0.799	0.829	0.835
F Statistic	78.748***	12.777***	29.233***	84.557***	10.307***

Table 8: Results of Mincer Analysis, RLMS 2001

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.196***	0.113**	0.289***	0.204***	0.140
	(0.036)	(0.052)	(0.050)	(0.039)	(0.101)
Higher education	0.594***	0.508***	0.688***	0.619***	0.423***
	(0.039)	(0.059)	(0.053)	(0.042)	(0.110)
Experience	0.0002	-0.0004	-0.0002	-0.002	0.017
-	(0.005)	(0.007)	(0.006)	(0.005)	(0.015)
Experience squared	-0.00001	-0.0001	0.0001	0.00004	-0.0004
	(0.0001)	(0.0002)	(0.0002)	(0.0001)	(0.0005)
Non-Russian	-0.027	-0.103^*	0.025		
	(0.040)	(0.063)	(0.051)		
Female	-0.463^{***}			-0.478***	-0.361***
	(0.027)			(0.029)	(0.081)
Constant	7.491***	7.591***	6.921***	7.501***	7.383***
	(0.041)	(0.058)	(0.057)	(0.044)	(0.116)
Observations	3,604	1,673	1,931	3,128	476
\mathbb{R}^2	0.125	0.056	0.091	0.136	0.066
Adjusted R ²	0.124	0.053	0.089	0.135	0.056
Residual Std. Error	0.813	0.853	0.774	0.805	0.858
F Statistic	85.935***	19.738***	38.626***	98.701***	6.661***

Table 9: Results of Mincer Analysis, RLMS 2002

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.203***	0.140***	0.280***	0.215***	0.150*
	(0.033)	(0.047)	(0.046)	(0.036)	(0.082)
Higher education	0.581***	0.518***	0.652***	0.595***	0.504***
	(0.035)	(0.052)	(0.049)	(0.039)	(0.092)
Experience	0.008*	0.001	0.013**	0.006	0.019
	(0.004)	(0.007)	(0.006)	(0.005)	(0.013)
Experience squared	-0.0001	-0.0001	-0.0002	-0.0001	-0.0004
	(0.0001)	(0.0002)	(0.0002)	(0.0001)	(0.0004)
Non-Russian	0.069^{*}	0.066	0.062		
	(0.035)	(0.055)	(0.046)		
Female	-0.444***			-0.441***	-0.459^{***}
	(0.025)			(0.026)	(0.068)
Constant	7.755***	7.863***	7.193***	7.753***	7.815***
	(0.038)	(0.053)	(0.052)	(0.041)	(0.097)
Observations	3,803	1,748	2,055	3,286	517
\mathbb{R}^2	0.133	0.062	0.098	0.134	0.125
Adjusted R ²	0.131	0.059	0.096	0.133	0.116
Residual Std. Error	0.748	0.774	0.722	0.748	0.749
F Statistic	96.883***	22.835***	44.584***	101.827***	14.558***

Table 10: Results of Mincer Analysis, RLMS 2003

	Total Sample	Males	Females	Russians	Non-Russians
	-				
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.229***	0.136***	0.328***	0.224***	0.271***
	(0.033)	(0.046)	(0.046)	(0.035)	(0.083)
Higher education	0.604***	0.485***	0.717***	0.623***	0.483***
	(0.035)	(0.052)	(0.048)	(0.038)	(0.090)
Experience	0.008**	0.008	0.009^{*}	0.009**	0.006
	(0.004)	(0.007)	(0.006)	(0.005)	(0.012)
Experience squared	-0.0002	-0.0004*	-0.0001	-0.0002	-0.0002
	(0.0001)	(0.0002)	(0.0002)	(0.0001)	(0.0004)
Non-Russian	0.066*	0.049	0.075		
	(0.035)	(0.053)	(0.047)		
Female	-0.491^{***}			-0.495***	-0.468***
	(0.024)			(0.026)	(0.066)
Constant	7.970***	8.086***	7.359***	7.963***	8.078***
	(0.038)	(0.054)	(0.052)	(0.041)	(0.099)
Observations	3,857	1,765	2,092	3,335	522
\mathbb{R}^2	0.151	0.060	0.110	0.154	0.137
Adjusted \mathbb{R}^2	0.150	0.057	0.108	0.153	0.129
Residual Std. Error	0.747	0.761	0.731	0.749	0.731
F Statistic	114.015^{***}	22.345***	51.464***	121.088***	16.378***

Table 11: Results of Mincer Analysis, RLMS 2004

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.181***	0.161***	0.207***	0.181***	0.189**
	(0.031)	(0.044)	(0.044)	(0.034)	(0.080)
Higher education	0.554***	0.486***	0.617***	0.570***	0.467***
	(0.033)	(0.049)	(0.046)	(0.036)	(0.086)
Experience	0.0001	-0.006	0.005	0.001	-0.009
	(0.004)	(0.006)	(0.005)	(0.004)	(0.011)
Experience squared	0.00003	0.00002	0.00001	-0.00002	0.0004
	(0.0001)	(0.0002)	(0.0002)	(0.0001)	(0.0003)
Non-Russian	0.039	0.037	0.036		
	(0.033)	(0.050)	(0.044)		
Female	-0.497^{***}			-0.497^{***}	-0.505***
	(0.023)			(0.025)	(0.063)
Constant	8.294***	8.380***	7.708***	8.284***	8.393***
	(0.036)	(0.050)	(0.049)	(0.039)	(0.089)
Observations	3,967	1,824	2,143	3,439	528
\mathbb{R}^2	0.157	0.061	0.101	0.159	0.151
Adjusted R ²	0.156	0.058	0.099	0.158	0.143
Residual Std. Error	0.711	0.730	0.692	0.712	0.707
F Statistic	123.291***	23.549***	48.085***	129.807***	18.629***

Table 12: Results of Mincer Analysis, RLMS 2005

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	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.163***	0.129***	0.212***	0.167***	0.154*
	(0.031)	(0.043)	(0.044)	(0.034)	(0.079)
Higher education	0.547***	0.430***	0.657***	0.567***	0.442***
	(0.033)	(0.048)	(0.046)	(0.036)	(0.085)
Experience	-0.003	-0.007	0.001	-0.002	-0.008
	(0.004)	(0.006)	(0.005)	(0.004)	(0.011)
Experience squared	0.0001	0.00002	0.0001	0.0001	0.0002
	(0.0001)	(0.0002)	(0.0002)	(0.0001)	(0.0003)
Non-Russian	0.063*	0.016	0.109**		
	(0.033)	(0.049)	(0.044)		
Female	-0.503***			-0.517^{***}	-0.427^{***}
	(0.023)			(0.025)	(0.064)
Constant	8.532***	8.644***	7.906***	8.524***	8.633***
	(0.036)	(0.050)	(0.051)	(0.039)	(0.092)
Observations	3,913	1,801	2,112	3,367	546
\mathbb{R}^2	0.162	0.053	0.120	0.169	0.124
Adjusted \mathbb{R}^2	0.160	0.050	0.118	0.167	0.116
Residual Std. Error	0.704	0.723	0.684	0.700	0.733
F Statistic	125.554***	20.059***	57.218***	136.313***	15.263***

Table 13: Results of Mincer Analysis, RLMS 2006

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.161***	0.114***	0.227***	0.155***	0.198***
	(0.027)	(0.038)	(0.039)	(0.029)	(0.069)
Higher education	0.572***	0.436***	0.696***	0.580***	0.518***
	(0.029)	(0.043)	(0.041)	(0.032)	(0.075)
Experience	-0.003	0.002	-0.006	-0.002	-0.005
	(0.003)	(0.005)	(0.004)	(0.004)	(0.009)
Experience squared	0.00003	-0.0002	0.0002	0.00002	0.0001
	(0.0001)	(0.0002)	(0.0001)	(0.0001)	(0.0003)
Non-Russian	0.092***	0.066	0.117***		
	(0.029)	(0.044)	(0.039)		
Female	-0.456***			-0.463^{***}	-0.411^{***}
	(0.020)			(0.022)	(0.054)
Constant	8.733***	8.791***	8.200***	8.735***	8.819***
	(0.031)	(0.042)	(0.043)	(0.033)	(0.078)
Observations	4,804	2,172	2,632	4,179	625
\mathbb{R}^2	0.163	0.059	0.133	0.164	0.151
Adjusted R ²	0.162	0.057	0.131	0.163	0.144
Residual Std. Error	0.681	0.694	0.667	0.684	0.659
F Statistic	156.012***	27.246***	80.635***	163.550***	22.059***

Table 14: Results of Mincer Analysis, RLMS 2007

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.158***	0.155***	0.174***	0.179***	0.054
	(0.026)	(0.035)	(0.037)	(0.028)	(0.066)
Higher education	0.495***	0.378***	0.593***	0.530***	0.298***
	(0.028)	(0.039)	(0.039)	(0.030)	(0.072)
Experience	-0.001	0.002	-0.003	-0.003	0.011
	(0.003)	(0.005)	(0.004)	(0.003)	(0.009)
Experience squared	-0.00005	-0.0002*	0.0001	0.00000	-0.0004
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0003)
Non-Russian	0.045	-0.019	0.110***		
	(0.028)	(0.041)	(0.038)		
Female	-0.429^{***}			-0.447^{***}	-0.318***
	(0.019)			(0.020)	(0.053)
Constant	8.955***	9.000***	8.476***	8.953***	8.996***
	(0.029)	(0.040)	(0.040)	(0.031)	(0.076)
Observations	4,726	2,153	2,573	4,136	590
\mathbb{R}^2	0.152	0.050	0.113	0.161	0.097
Adjusted R ²	0.150	0.048	0.111	0.160	0.089
Residual Std. Error	0.640	0.641	0.636	0.641	0.631
F Statistic	140.495***	22.629***	65.411^{***}	158.888***	12.539***

Table 15: Results of Mincer Analysis, RLMS 2008

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.175***	0.151***	0.209***	0.189***	0.120*
	(0.027)	(0.037)	(0.040)	(0.030)	(0.069)
Higher education	0.567***	0.488***	0.640***	0.599***	0.412***
	(0.029)	(0.041)	(0.041)	(0.032)	(0.072)
Experience	-0.0002	-0.001	0.0001	-0.001	0.002
	(0.003)	(0.005)	(0.005)	(0.004)	(0.009)
Experience squared	-0.0001	-0.0002	-0.00000	-0.0001	-0.0002
	(0.0001)	(0.0002)	(0.0001)	(0.0001)	(0.0003)
Non-Russian	0.043	-0.031	0.116***		
	(0.028)	(0.040)	(0.039)		
Female	-0.453^{***}			-0.476***	-0.322***
	(0.020)			(0.022)	(0.053)
Constant	9.176***	9.249***	8.650***	9.173***	9.235***
	(0.032)	(0.043)	(0.044)	(0.034)	(0.081)
Observations	4,827	2,170	2,657	4,140	687
\mathbb{R}^2	0.162	0.079	0.114	0.172	0.107
Adjusted R ²	0.161	0.077	0.112	0.171	0.101
Residual Std. Error	0.683	0.680	0.683	0.681	0.689
F Statistic	155.203***	37.314***	68.048***	172.104***	16.395***

Table 16: Results of Mincer Analysis, RLMS 2009

	Total Sample	otal Sample Males Females	Russians	Non-Russians	
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.143***	0.109***	0.181***	0.155***	0.075
	(0.027)	(0.037)	(0.040)	(0.029)	(0.071)
Higher education	0.517***	0.431***	0.587***	0.534***	0.406***
	(0.028)	(0.040)	(0.040)	(0.030)	(0.076)
Experience	0.012***	0.008	0.016***	0.011***	0.021**
	(0.003)	(0.005)	(0.004)	(0.003)	(0.010)
Experience squared	-0.0004***	-0.0003**	-0.0004***	-0.0003***	-0.001**
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0003)
Non-Russian	0.054^{*}	0.036	0.066		
	(0.030)	(0.044)	(0.041)		
Female	-0.436***			-0.439***	-0.409***
	(0.019)			(0.020)	(0.055)
Constant	9.174***	9.263***	8.659***	9.172***	9.234***
	(0.031)	(0.042)	(0.043)	(0.033)	(0.082)
Observations	4,803	2,146	2,657	4,267	536
\mathbb{R}^2	0.159	0.069	0.112	0.161	0.147
Adjusted \mathbb{R}^2	0.158	0.067	0.110	0.160	0.139
Residual Std. Error	0.650	0.640	0.657	0.654	0.621
F Statistic	151.376***	31.959***	66.940***	163.424***	18.259***

Table 17: Results of Mincer Analysis, RLMS 2010

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.124***	0.121***	0.133***	0.131***	0.094
	(0.021)	(0.030)	(0.031)	(0.023)	(0.062)
Higher education	0.492***	0.444***	0.535***	0.506***	0.398***
	(0.023)	(0.032)	(0.032)	(0.024)	(0.066)
Experience	0.007***	0.009**	0.004	0.005*	0.019**
	(0.002)	(0.004)	(0.003)	(0.003)	(0.008)
Experience squared	-0.0002***	-0.0004***	-0.0001	-0.0002***	-0.001**
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0002)
Non-Russian	0.083***	0.072**	0.095***		
	(0.024)	(0.036)	(0.033)		
Female	-0.405***			-0.408***	-0.392***
	(0.015)			(0.016)	(0.049)
Constant	9.315***	9.333***	8.889***	9.318***	9.361***
	(0.023)	(0.032)	(0.033)	(0.025)	(0.067)
Observations	7,325	3,318	4,007	6,532	793
\mathbb{R}^2	0.149	0.071	0.104	0.153	0.124
Adjusted R ²	0.149	0.069	0.103	0.152	0.119
Residual Std. Error	0.645	0.659	0.633	0.641	0.675
F Statistic	214.077***	50.335***	93.184***	234.981***	22.323***

Note: *p<0.1; **p<0.05; ***p<0.01

Table 18: Results of Mincer Analysis, RLMS 2011

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.082***	0.102***	0.059*	0.097***	-0.011
	(0.020)	(0.027)	(0.031)	(0.022)	(0.059)
Higher education	0.462***	0.446***	0.465***	0.479***	0.350***
	(0.021)	(0.030)	(0.031)	(0.023)	(0.061)
Experience	0.005^{*}	0.003	0.006*	0.004	0.007
	(0.002)	(0.004)	(0.003)	(0.003)	(0.008)
Experience squared	-0.0002***	-0.0003**	-0.0002**	-0.0002***	-0.0003
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0002)
Non-Russian	0.050**	0.047	0.054		
	(0.024)	(0.034)	(0.033)		
Female	-0.443***			-0.445***	-0.425***
	(0.015)			(0.016)	(0.046)
Constant	9.492***	9.512***	9.035***	9.483***	9.590***
	(0.022)	(0.029)	(0.032)	(0.023)	(0.065)
Observations	7,166	3,270	3,896	6,415	751
\mathbb{R}^2	0.174	0.088	0.100	0.176	0.158
Adjusted R ²	0.173	0.087	0.099	0.175	0.152
Residual Std. Error	0.617	0.608	0.624	0.616	0.629
F Statistic	250.624***	63.004***	86.557***	272.876***	27.904***

Table 19: Results of Mincer Analysis, RLMS 2012

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.064***	0.094***	0.031	0.059***	0.102^{*}
	(0.021)	(0.027)	(0.031)	(0.022)	(0.057)
Higher education	0.440***	0.434***	0.433***	0.440***	0.441***
	(0.021)	(0.030)	(0.031)	(0.023)	(0.059)
Experience	0.008***	0.011***	0.006*	0.006**	0.021***
	(0.002)	(0.004)	(0.003)	(0.003)	(0.008)
Experience squared	-0.0003***	-0.0005***	-0.0002*	-0.0003***	-0.001***
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0002)
Non-Russian	0.041*	0.042	0.038		
	(0.023)	(0.033)	(0.033)		
Female	-0.462^{***}			-0.461***	-0.470^{***}
	(0.015)			(0.016)	(0.045)
Constant	9.643***	9.637***	9.195***	9.655***	9.596***
	(0.022)	(0.029)	(0.033)	(0.024)	(0.062)
Observations	7,427	3,366	4,061	6,603	824
\mathbb{R}^2	0.171	0.088	0.090	0.169	0.183
Adjusted R ²	0.170	0.086	0.089	0.169	0.178
Residual Std. Error	0.635	0.621	0.645	0.635	0.633
F Statistic	254.601***	64.701***	80.544***	269.058***	36.546***

Table 20: Results of Mincer Analysis, RLMS 2013

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.078*** (0.021)	0.076^{***} (0.028)	0.083^{***} (0.032)	0.083*** (0.023)	0.062 (0.058)
Higher education	0.470***	0.424***	0.504***	0.480***	0.409***
	(0.022)	(0.030)	(0.032)	(0.024)	(0.061)
Experience	0.011***	0.010***	0.012***	0.008***	0.029***
	(0.002)	(0.004)	(0.003)	(0.003)	(0.008)
Experience squared	-0.0003***	-0.0005***	-0.0003***	-0.0003***	-0.001***
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0002)
Non-Russian	-0.045^{**}	-0.043	-0.049		
	(0.023)	(0.032)	(0.032)		
Female	-0.432***			-0.431***	-0.436***
	(0.015)			(0.016)	(0.045)
Constant	9.684***	9.724***	9.211***	9.693***	9.559***
	(0.023)	(0.031)	(0.033)	(0.025)	(0.063)
Observations	7,324	3,359	3,965	6,440	884
\mathbb{R}^2	0.165	0.082	0.111	0.167	0.154
Adjusted R ²	0.164	0.081	0.110	0.166	0.149
Residual Std. Error	0.629	0.625	0.631	0.625	0.659
F Statistic	240.156***	59.946***	99.247***	258.110***	31.873***

Table 21: Results of Mincer Analysis, RLMS 2014

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.080***	0.089***	0.067**	0.088***	0.050
	(0.023)	(0.031)	(0.034)	(0.024)	(0.065)
Higher education	0.473***	0.440***	0.492***	0.495***	0.333***
	(0.024)	(0.033)	(0.034)	(0.025)	(0.067)
Experience	0.008***	0.011**	0.007**	0.005^{*}	0.037***
-	(0.003)	(0.004)	(0.004)	(0.003)	(0.009)
Experience squared	-0.0002***	-0.0004***	-0.0002	-0.0002*	-0.001***
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0003)
Non-Russian	-0.018	-0.040	0.002		
	(0.025)	(0.037)	(0.034)		
Female	-0.409***			-0.416***	-0.363***
	(0.016)			(0.017)	(0.051)
Constant	9.780***	9.793***	9.359***	9.794***	9.632***
	(0.025)	(0.035)	(0.036)	(0.027)	(0.073)
Observations	6,147	2,794	3,353	5,449	698
\mathbb{R}^2	0.160	0.081	0.117	0.168	0.128
Adjusted R ²	0.160	0.080	0.116	0.167	0.121
Residual Std. Error	0.616	0.627	0.606	0.611	0.652
F Statistic	195.451***	49.417***	88.665***	220.189***	20.278***

Table 22: Results of Mincer Analysis, RLMS 2015

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.091*** (0.023)	0.117*** (0.029)	0.050 (0.036)	0.091*** (0.024)	0.093 (0.063)
Higher education	0.443***	0.442***	0.425***	0.449***	0.401***
	(0.023)	(0.031)	(0.036)	(0.025)	(0.064)
Experience	0.010*** (0.003)	0.016*** (0.004)	0.007^* (0.004)	0.006** (0.003)	0.036*** (0.008)
Experience squared	-0.0003^{***} (0.0001)	-0.001^{***} (0.0001)	-0.0001 (0.0001)	-0.0002^{**} (0.0001)	-0.001^{***} (0.0002)
Non-Russian	-0.039 (0.024)	-0.056^* (0.033)	-0.024 (0.034)		
Female	-0.422^{***} (0.016)			-0.426^{***} (0.016)	-0.391^{***} (0.047)
Constant	9.818*** (0.025)	9.794*** (0.033)	9.426*** (0.038)	9.838*** (0.027)	9.627*** (0.070)
Observations	6,230	2,844	3,386	5,515	715
R ²	0.163	0.093	0.093	0.165	0.167
Adjusted R ² Residual Std. Error	$0.162 \\ 0.599$	$0.091 \\ 0.587$	$0.091 \\ 0.607$	$0.164 \\ 0.597$	$0.161 \\ 0.613$
F Statistic	202.247***	58.161***	69.116***	217.040***	28.468***

Table 23: Results of Mincer Analysis, RLMS 2016

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.052** (0.024)	0.064** (0.030)	0.036 (0.038)	0.058** (0.026)	0.023 (0.063)
Higher education	0.403*** (0.024)	0.396*** (0.031)	0.403*** (0.037)	0.414*** (0.026)	0.336*** (0.064)
Experience	0.011*** (0.003)	0.017*** (0.004)	0.007^* (0.004)	0.009*** (0.003)	0.032*** (0.008)
Experience squared	-0.0003^{***} (0.0001)	-0.001^{***} (0.0001)	-0.0001 (0.0001)	-0.0002^{***} (0.0001)	-0.001^{***} (0.0002)
Non-Russian	0.013 (0.025)	0.016 (0.035)	0.011 (0.036)		
Female	-0.406^{***} (0.016)			-0.406^{***} (0.017)	-0.404^{***} (0.046)
Constant	9.872*** (0.027)	9.849*** (0.034)	9.489*** (0.040)	9.881*** (0.028)	9.800*** (0.074)
Observations R ²	6,296 0.146	2,905 0.083	3,391 0.080	5,611 0.145	685 0.167
Adjusted R ² Residual Std. Error F Statistic	0.145 0.619 179.466^{***}	0.081 0.592 $52.260****$	0.079 0.641 58.799***	0.144 0.621 190.040***	0.161 0.598 27.237^{***}

Table 24: Results of Mincer Analysis, RLMS 2017

	Total Sample (1)	Males (2)	Females (3)	Russians (4)	Non-Russians (5)
Vocational education	0.074***	0.083***	0.062	0.080***	0.040
	(0.024)	(0.029)	(0.040)	(0.026)	(0.061)
Higher education	0.404***	0.404***	0.398***	0.411***	0.354***
	(0.025)	(0.031)	(0.040)	(0.027)	(0.062)
Experience	0.013***	0.019***	0.009**	0.013***	0.020***
	(0.003)	(0.004)	(0.004)	(0.003)	(0.008)
Experience squared	-0.0004***	-0.001***	-0.0002**	-0.0004***	-0.001**
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0002)
Non-Russian	0.061**	0.058*	0.063		
	(0.026)	(0.035)	(0.038)		
Female	-0.442***			-0.443***	-0.432***
	(0.016)			(0.017)	(0.044)
Constant	9.920***	9.890***	9.506***	9.919***	9.973***
	(0.027)	(0.034)	(0.043)	(0.029)	(0.072)
Observations	6,355	2,945	3,410	5,715	640
\mathbb{R}^2	0.153	0.089	0.066	0.149	0.201
Adjusted \mathbb{R}^2	0.152	0.087	0.065	0.148	0.195
Residual Std. Error	0.628	0.578	0.668	0.636	0.550
F Statistic	191.331***	57.371***	48.265***	199.302***	31.864***

Note: p<0.1; **p<0.05; ***p<0.01

Table 25: Results of Mincer Analysis, RLMS 2018

	Total Sample	Males	Females	Russians	Non-Russians
	(1)	(2)	(3)	(4)	(5)
Vocational education	0.077***	0.070**	0.085**	0.082***	0.063
	(0.023)	(0.031)	(0.036)	(0.025)	(0.067)
Higher education	0.386***	0.370***	0.400***	0.394***	0.345***
	(0.024)	(0.032)	(0.036)	(0.025)	(0.069)
Experience	0.013***	0.015***	0.013***	0.012***	0.022***
	(0.003)	(0.004)	(0.004)	(0.003)	(0.008)
Experience squared	-0.0004***	-0.0005***	-0.0003***	-0.0003***	-0.001**
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0002)
Non-Russian	0.004	-0.019	0.025		
	(0.025)	(0.035)	(0.035)		
Female	-0.393***			-0.398***	-0.354***
	(0.015)			(0.016)	(0.048)
Constant	9.993***	10.007***	9.582***	10.000***	9.930***
	(0.027)	(0.036)	(0.039)	(0.028)	(0.079)
Observations	6,120	2,806	3,314	5,468	652
\mathbb{R}^2	0.144	0.073	0.077	0.147	0.126
Adjusted R ²	0.143	0.072	0.075	0.146	0.119
Residual Std. Error	0.593	0.581	0.602	0.591	0.610
F Statistic	171.170***	44.408***	55.095***	187.836***	18.631***