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

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Abstract

This is the second 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.

1 Returns to Education in the Russian Federation: General View

1.1 Motivation

Here there will be 2-3 pages drawn from the CN. Somewhere we will cite (Mincer 1974).

1.2 Data

For country level analysis, we use the Russian Longitudinal Monitoring Survey (RLMS) - 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 Wednesday 8th January, 2020. 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).

1.3 Estimation

Our empirical analysis present results for the general working population of the Russian Federation aged 25-64 and by gender. We use a basic Mincerian specification shown in equation (1.1):

$$Log(Wage) = b_0 + b_1 \cdot Educ + b_2 \cdot Exp + b_3 \cdot Exp^2 + b_4 \cdot Gender + \epsilon$$
 (1.1)

where Log(Wage) is a logarithm of monthly wage, Educ stands for the years of education or 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, b_0 is an intercept, $b_1...b_n$ are the respective slope estimates, ϵ refers to a normally distributed error term.

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 question mentioned above 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

The present research uses both metric (measured in years) and categorical education variables. The metric version was created by assigning the average expected number of years corresponding to each attained education level. For the categorical version (EDUC), we distinguished three categories: (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 education in general, and 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 is minuscule in the general population.

The experience variable was calculated as a difference between current age and years of education minus 6. Gender was included in the specification in the form of a dichotomous dummy variable with "1" standing for females, "0" - for males.

Figure 1.1 shows rates of overall and gender-wise returns to education in Russia in 1994-2018: percentage increment in a person's earnings due to one additional year of schooling (see tables in Appendix for the estimation results). Overall, one can notice a moderate curved growth in returns to education in Russia, achieving its peak in the early 2000s, which is followed by a downward pattern. Education payoffs for women are higher than those of men, but the difference appears to have narrowed in recent years (see tables with 95% confidence intervals of regression coefficients in Appendix).

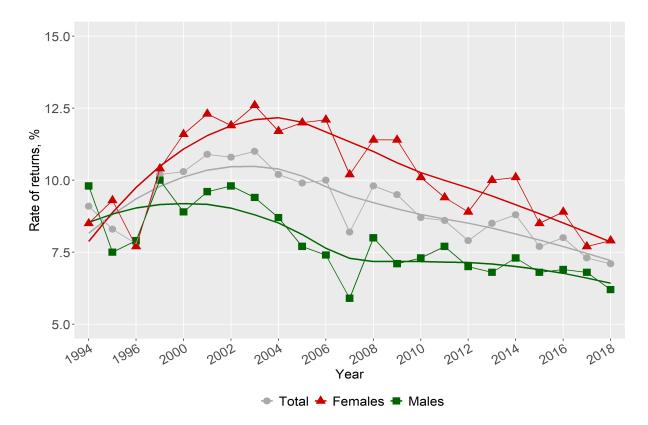


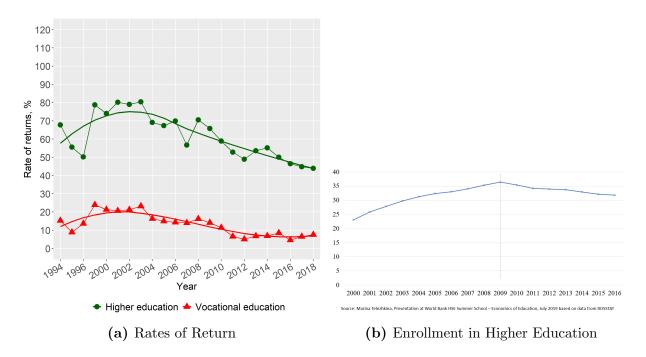
Figure 1.1: Rates of Returns to Education in Russia, RLMS 1994-2018

We are particularly interested in the returns to specific levels of education, estimated through a series of dummy variables. Using Secondary Education completed as the base or omitted dummy for purpose of interpretation, we use dummies for Vocational Education and for Higher Education. The specification is presented in equation (1.2):

$$Log(Wage) = a_0 + a_1 \cdot D_{Voc} + a_2 \cdot D_{Higher} + a_3 \cdot Exp + a_4 \cdot Exp^2 + a_5 \cdot Gender + \epsilon$$
(1.2)

Figure 1.2, panel (a) displays rates of returns to Higher and Vocational education (as compared to Secondary education) in Russia for the period 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. The observed trend for premiums to both Vocational and Higher education levels is similar to the trend for education in general with the following peaks: 83% for Higher education and 26% for Vocational education compared to the average earnings of workers with a Secondary education. The interesting pattern to note from panel 1.2a 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. Further, even though higher education premium remains much above the premium for vocational education, there is a perceptible narrowing of the difference in recent years. Panel 1.2b, 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 the population of 17-25 year old. Panel 1.2b shows the downturn in returns reflected in enrollments, with the peak in enrollments coming about 10 years later.

Figure 1.2: Rates of Returns to Higher and Vocational Education in Russia, RLMS 1994-2018



When estimated separately by gender, we find trend variation by gender. The results from estimation of earnings functions show that payoffs to Higher education for males varied from 45% to 76%, whereas women's returns are described by an inversely U-shaped pattern, reaching their maximum of 104% in 2001. Within roughly the last 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, albeit with a different kind of variation by gender (see Figure 1.3): returns for males are almost flat within the time period while returns for females shows a concave pattern. The overall outcome concerning payoffs to schooling isolated by gender has been confirmed in a similar fashion by past studies (e.g., Cheidvasser and Benítez-Silva 2007).

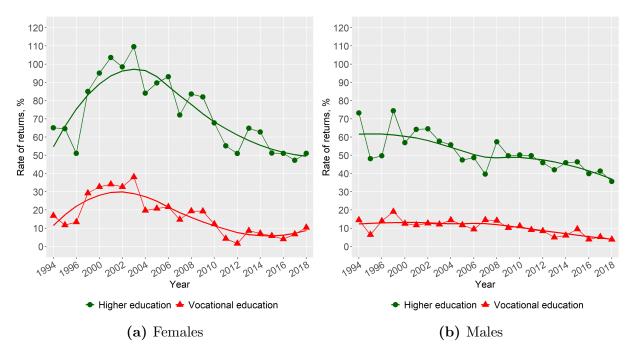


Figure 1.3: Rates of Returns to Higher and Vocational Education in Russia, RLMS 1994-2018

2 Depreciation of Human Capital in the Russian Federation

Age-earnings profiles are almost invariably concave downward shaped. Earnings rise after a labor market entrant completes full-time schooling. The profile indicates a peak in earnings, usually a few years before retirement, after which there is a steady decline in earnings. The concave shape is an outcome of two countervailing tendencies - the rise attributed to continued accumulation of human capital through training and the decline due to depreciation. The precise shape and location of the peak is an object of analytical interest. Depreciation of human capital is useful to investigate from a policy perspective. Just like some physical capital (machinery, buildings) are built stronger and last longer, is it possible that some kinds of education inherently generate human capital that is slower to depreciate? What attributes of the labor market lead to lower or higher levels of depreciation? What about the welfare implications of changes in the age at which individuals retire from the labor force? How has the depreciation rate of human capital changed over time in the Russian Federation? In particular, can changes in the rate of depreciation explain the observed pattern of the rates of return depicted in 1.1?

2.1 Analytical Treatment of Depreciation

Rosen (1976) and Mincer and Ofek (1982) presented early treatments on the depreciation of human capital. However, in terms of a focus on depreciation, a seminal paper of Neuman and Weiss (1995) established the basic parameters that have guided the research since that time. The authors introduce the important distinction between two kinds of depreciation or loss of productive potential of human capital. The first one, termed as "obsolescence" or "vintage effect", is due to an overall upgrading of technology or the operation of other market forces that lowers the value of education or training obtained in

a previous period. This is also termed as an 'external depreciation", presumably as it is a given for an individual. The second kind of depreciation is attributed to the deterioration of physical and mental abilities of an individual due to the progression of a person's age, or the simple passage of time. This is also termed as "internal depreciation". Neuman and Weiss posited that external effects would be more important for higher levels of education, under the assumption that changes in the labor market are transmitted more readily to higher education. They give the example that a recently educated electrical engineer would be learning many new things compared to one who studied the same subject in an earlier time. Neuman and Weiss reasoned that workers with basic education levels may not suffer as much from obsolescence.

Figure 2.1 shows for the Russian Federation the effects described by Neuman and Weiss. There are three panels in the figure, and three lines in each figure. The vertical axis indicates the monthly earnings in constant 2018 rubles, using the Rosstat CPI deflator. The horizontal axis indicates the years of experience. The dotted line shows the earnings for 1998, the dashed line represents 2006 and the solid line the data from 2018. Each of the panels, representing a different level of education, shows an upward drift in the experience-earnings profiles in the period from 1998 to 2018. Only Figure 2.1a shows a clear concave downwards profile for Higher Education; the concave tendency is less pronounced for the other two levels of Vocational education and Secondary education.

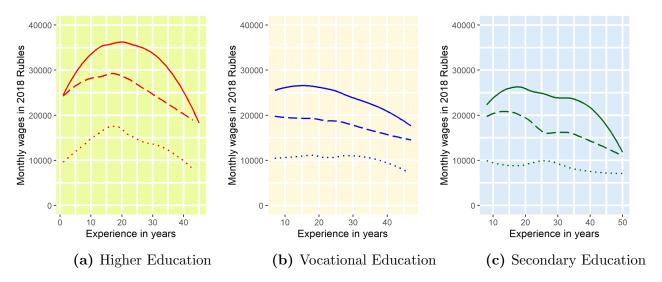


Figure 2.1: Neuman-Weiss vintage effects by education level from RLMS Rounds 1998, 2006 and 2018

Putting the curves together by year (Figure 2.2) suggests that the premium for university education over the other two levels does narrow at higher levels of experience. In the figure, to accommodate the relatively lower wage levels of 1998, the leftmost panel (Figure 2.2a) is slightly compressed compared to the other two panels. The converging tendency between levels of education would suggest that depreciation is indeed higher for university graduates. In the next two subsections, we present a more rigorous quantitative treatment of this issue, using a variant of Neuman-Weiss developed by Murillo (2006).

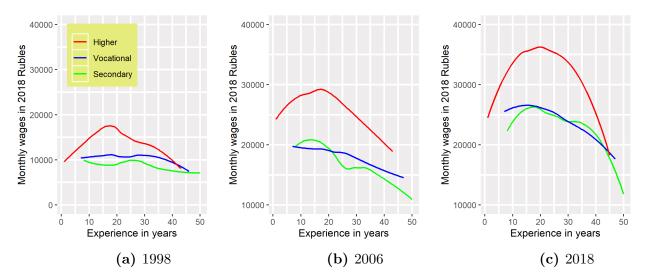


Figure 2.2: Neuman-Weiss vintage effects by Year from RLMS Rounds 1998, 2006 and 2018

2.2 Differential Depreciation Affecting Education and Training

Murillo (2006) implemented a variation of the Neuman and Weiss model with a focus on empirical implementation to Spain. We follow the Murillo notation in the implementation of the model, which begins with the following earnings equation:

$$log(W_T) = \alpha + \beta_1 K S_T + \beta_2 K E_T \tag{2.1}$$

where W represents earnings, KS the stock of human capital derived from schooling of S years, and KE the stock of human capital acquired from on the job training or experience, and T indexes the number of experience years since completing formal education. In this set-up, the parameters β_1 and β_2 are the productivity parameters for the respective parts of the stock of human capital. Both are assumed to suffer from depreciation or the loss of productive value. At this stage, we do not distinguish between the causes (internal or external) of this loss. The path of the stock of human capital due to education is given by

$$KS_T = S + hTS (2.2)$$

where h is the rate of loss of the stock. The next equation for the loss of stock gained from experience is a bit more complicated. The stock from schooling, S is taken to be fixed at the end of the full-time schooling period and the beginning of the working period. However, experience is being built up every year at the same time as the capital acquired from previous experience depreciates.

$$KE_T = \{1 + (T-1) \cdot \gamma\} + \{1 + (T-2) \cdot \gamma\} + \{1 + (T-3) \cdot \gamma\} + \dots + \{1\}$$
(2.3)

where γ is the rate of loss applied every year. The equation can be simplified and summarized as

$$KE_T = T + \gamma \cdot \{ (T-1) + (T-2) + (T-3) + \dots + 1 \} = T + \gamma \cdot \frac{T^2}{2}$$
 (2.4)

Substituting equations 2.2 and 2.4 into equation 2.1, we get

$$log(W) = \alpha + \beta_1 S + \beta_1 h T S + \beta_2 T + \frac{\beta_2 \gamma}{2} T^2 = \alpha + \beta_1 S + \pi_1 T S + \beta_2 T + \pi_2 T^2$$
 (2.5)

where $\pi_1 = \beta_1 h$ and $\pi_2 = \frac{\beta_2 \gamma}{2}$. From 2.5, the depreciation rate during T years applied to schooling can be computed as $\pi_1 S$ and the depreciation rate applied to experience as $2\pi_2 T$.

Estimation Results

Table 2.1 shows OLS estimation results of equation 2.5 run on the whole sample of the RLMS observations. In this subsection, we analyzed separately six years that represent the ends (1994 and 2018), the diffused peak (2003 and 2006), and halfway points to the ends (2012 and 2003) of the available time interval. The idea is to examine the role played by changes in depreciation to explain the observed pattern of variation in the rates of return shown in Figure 1.1.

Table 2.1: Results of Estimating Human Capital Depreciation for the Whole Sample, RLMS

	1994	1998	2003	2006	2012	2018
	(1)	(2)	(3)	(4)	(5)	(6)
Constant	10.266***	4.720***	6.762***	7.854***	8.889***	9.205***
	(0.301)	(0.258)	(0.221)	(0.181)	(0.128)	(0.158)
Educ, years (S)	0.113***	0.116***	0.094***	0.074***	0.054***	0.053***
	(0.020)	(0.017)	(0.015)	(0.012)	(0.008)	(0.010)
Educ X Exper (TS)	-0.001^*	-0.001^*	-0.00005	0.0003	0.0003	0.0001
Edde II Emper (10)	(0.001)	(0.001)	(0.001)	(0.0005)	(0.0003)	(0.0004)
$\operatorname{Exper}(T)$	0.053***	0.044***	0.016	-0.001	0.012*	0.023***
	(0.015)	(0.013)	(0.011)	(0.009)	(0.007)	(0.008)
Exper squared (T^2)	-0.001***	-0.001***	-0.0004***	-0.0002^*	-0.001***	-0.001***
	(0.0002)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
Observations	3,037	3,100	3,856	4,800	7,417	6,112
\mathbb{R}^2	0.043	0.058	0.068	0.078	0.088	0.071
Adjusted R ²	0.042	0.057	0.067	0.077	0.087	0.071
Residual Std. Error	0.934	0.800	0.782	0.715	0.666	0.617
F Statistic	34.062***	47.678***	69.846***	101.053***	177.952***	117.104***

Note:

*p<0.1; **p<0.05; ***p<0.01

Using the coefficient estimates derived from Table 2.1, we compute the depreciation rate during T years applied to schooling as $\pi_1 S$ and the depreciation rate applied to experience as $2\pi_2 T$, evaluating the expression at the mean level of schooling. Table ?? reports the depreciation rate values so calculated with the corresponding sample means. The table shows an interesting U-shaped pattern in the depreciation rate for human capital. The depreciation rate associated with education has been declining steadily and did not pick up again as measured with the given data. The depreciation rate associated with experience declined at first and then picked up again.

Table 2.2:	Average Depreciation	Rates (DR)	by Years,	RLMS
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	Statistic	1994	1998	2003	2006	2012	2018
1	Experience, mean	12.70	12.69	12.79	12.79	12.95	13.27
2	Education, mean	21.41	22.32	22.20	22.24	22.52	22.52
3	DR Experience, $\%$	1.87	1.55	1.04	0.50	1.37	1.63
4	DR Education, %	2.80	2.71	0.11	0.00	0.00	0.00
5	DR Human Capital, $\%$	4.67	4.26	1.15	0.50	1.37	1.63

Further work is required, including computation of the depreciation rates at levels other than the mean values. At this stage, the findings raise some interesting questions which needs to be addressed by further research. In the period from 1994 to 2006, the depreciation rate appears to be declining, just as the rates of return were on an ascending curve. As both kinds of depreciation (for experience and education) were declining, it is possible that the main cause was in the labor market experience rather than in the education system. Since the peak of earnings premiums in the 2003-2006 period, as returns to education have declined, we see that the depreciation rates associated with experience have started climbing back, but depreciation rates associated with education have declined to null and not reverted. It is tempting to claim that this indicates a qualitative improvment in the skills provided by the education system, but further investigation is warranted before making such a claim. We explore next an alternative computation of the depreciation rate.

2.3 Depreciation of Human Capital using Non-Linear Least Squares Description of Model

Arrazola et al. (2005) and (Weber 2008, 2011) implemented a model that includes the human capital depreciation rate as a parameter in the earnings equation.

PLEASE INCLUDE HERE ALL THE EQUATIONS AND DERIVATION RATHER THAN JUST THE LAST EQUATION]

Weber's methodological solution culminates in the following equation:

$$\ln Y_{it} = \ln W + \beta_K \cdot \left\{ (1 - \delta)^{X_{it}} \cdot S_i + \alpha \cdot \frac{1 - (1 - \delta)^{X_{it}}}{\delta} \cdot \left(1 + \frac{1 - \delta}{\delta \cdot L_i} \right) - \frac{\alpha \cdot X_{it}}{\delta \cdot L_i} \right\} + \ln \left\{ 1 - \left(\alpha - \frac{\alpha}{L_i} \cdot X_{it} \right) \right\} + \beta_Z \cdot Z_{it} + u_{it} \quad (2.6)$$

where i represents an individual subscript, t shows a time period, $\ln Y$ is a logarithm of the observed earnings, $\ln W$ is a logarithm of a return per certain period on a unit of earnings capacity, β_K is the effect of the human capital stock on earnings, β_Z is the effect of other covariates in the model on earning, δ is the human capital depreciation rate, X_{it} is the labor market experience, L_i is the total working life length, α is a parameter reflecting the share of time invested in training, Z_{it} is a set of observable attributes hypothesized to have an impact on earnings, u_{it} is an error term.

For the complete stages of the equation ?? derivation see (Weber 2008).

Table ?? reports empirical findings for the estimation of the ?? equation using NLS with robust standard errors. For simplicity, we restricted our analysis by the RLMS

data collected in 2018. The four specifications displayed separately by gender portray the following combinations of the α (post-school investment in human capital) and δ (depreciation rate of the human capital) parameters: $model\ I$ - both α and δ are constant across education levels; $model\ II$ - α is constant, δ varies; $model\ III$ - α varies, δ is constant, $model\ VI$ - both α and δ vary across education levels.

The analysis unveiled several intriguing inferences. According to model I, the depreciation rate in the Russian Federation is 2.5% for women and 5.1% for men, meaning that men have a greater human capital depreciation rate. This is somewhat unexpected given that females are more prone to career interruptions, which escalates human capital obsolescence and generates discontinuities in the human capital production (Weber 2008).

 $\ln W$, operating as an intercept in the equations evaluated, represents one's wage when the education variable is nil, i.e., a person achieved only secondary level. For females, it results in remuneration of approximately 4,500 RUB and for males – 6,900 RUB; however, these differences are not statistically significant (we checked that 95% confidence bands for the respective coefficients intersect). Contrarily, the impact of human capital stock (b_k) on earnings is substantially stronger for males, implying that men are rewarded higher for their education. Males also invest more time in training immediately after graduation (α) . These observations denote that females in the Russian Federation appear not to be adequately integrated into the working process at their jobs.

Model II, allowing δ parameter to be heterogeneous across education types, informs us that human capital depreciation rate does not seem to vary dramatically: only for the secondary level holders depreciation rate is significant but statistically is identical for both males and females.

Model III, introducing α variation by education levels, poses evidence that employees with secondary level are more likely to make after-school investments in human capital compared to university graduates. The findings do not support the argument on the human capital depreciation rate for vocational level workers being different from zero for both females and males.

Model IV is a combination of models II and III; however, according to goodness-of-fit measures (AIC and BIC), it has lower quality than model III. Hence, the latter appears to be most optimal in terms of describing the data of interest.

Table 2.3: Empirical Estimates for Females and Males, RLMS 2018

		Fen	nales			Ma	ales	
	I	II	III	IV	I	II	III	IV
lnW	8.413***	8.901***	8.778***	8.644***	8.838***	8.950***	9.022***	8.864***
	(0.127)	(0.319)	(0.0975)	(0.279)	(0.121)	(0.291)	(0.0925)	(0.221)
bk	0.133***	0.111***	0.125***	0.129***	0.178***	0.177***	0.183***	0.179***
	(0.0103)	(0.0115)	(0.0105)	(0.0130)	(0.0118)	(0.0147)	(0.0122)	(0.0111)
delta	0.0249***	<u> </u>			0.0511***			
	(0.00357)				(0.00692)			
alpha	0.463***	0.553***			0.731***	0.761***		
	(0.0609)	(0.143)			(0.0663)	(0.124)		
delta_base		0.0387^*	0.0355***	0.0305^*		0.0558**	0.0597***	0.0431**
		(0.0181)	(0.00453)	(0.0134)		(0.0185)	(0.00506)	(0.0144)
delta_voc		-0.00109		-0.00128		0.000258		0.00694
		(0.00251)		(0.00519)		(0.00150)		(0.00547)
delta_uni		-0.00699		0.00198		-0.00143		0.00892
		(0.00610)		(0.00805)		(0.00333)		(0.00728)
alpha_base			0.448***	0.424*			0.698***	0.498**
			(0.0728)	(0.172)			(0.0578)	(0.166)
alpha_voc			0.0124	-0.0322			0.00828	0.144
			(0.0442)	(0.128)			(0.0381)	(0.114)
alpha_uni			0.208***	0.206			0.157***	0.307^*
			(0.0533)	(0.134)			(0.0420)	(0.125)
N	3312	3312	3312	3312	2800	2800	2800	2800
$\mathrm{adj}.R^2$	0.082	0.085	0.091	0.091	0.096	0.096	0.106	0.107
AIC	6017.6	6006.2	5983.5	5987.1	4842.8	4844.9	4813.7	4814.6
BIC	6042.0	6042.8	6020.2	6035.9	4866.5	4880.5	4849.3	4862.1

Standard errors in parentheses

3 Extensions of the Human Capital Depreciation Analyses

3.1 Depreciation and Gender Dimension

In this section, by leveraging Murillo (2006) approach, we extend our analysis by comparing the estimated depreciation rates between female- and male-dominated groups in various industries and occupations. J4_1 and J2COD08 (ISCO-08) variables in the RLMS 2018 database were employed to tag gender-based industrial sectors and occupations, respectively. A sector was marked as female-dominated (male-dominated) if it contained more than 64% (less than 44%) of women, i.e., \pm 10% from the average of 54%. Accordingly, neutral sectors occupied the middle of the distribution. Figure ?? visualizes this procedure; Table ?? maps title of sectors with female percentages in them. To generate gender-related occupations an identical tactic was applied based on the 2-digit ISCO-08

^{*} p < 0.05, ** p < 0.01, *** p < 0.001

(see Figure ?? and Table ??). The latter was obtained by aggregating the respective 3-and 4-digit categories that were originally present in ISCO-08. If the double-digit group was composed of less than 20 observations, it was merged with "others" and labeled as a "Miscellaneous non-ISCO" category.

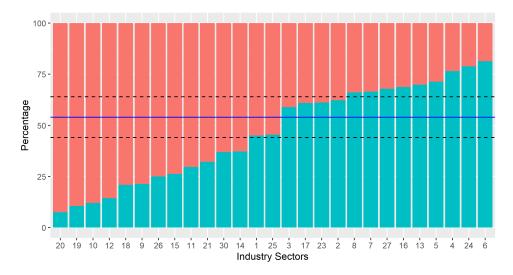


Figure 3.1: Distribution of Employment in RLMS 2018 by Industry and Gender

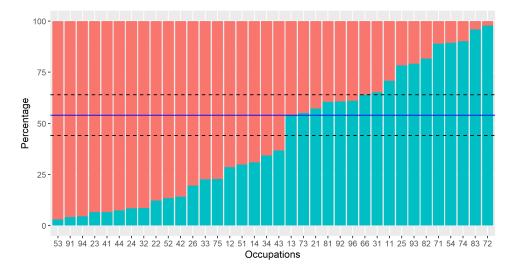


Figure 3.2: Distribution of Employment in RLMS 2018 by Industry and Gender

Table 3.1: Industries by Strength of Female Proportion, RLMS 2018

Category	Sector	N fem	% fem I	N total
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

Table ?? depicts average rates of human capital loss due to experience and education by the female- and male-dominated industrial sectors and occupations. It can be seen that the human capital depreciation rate due to experience for industries in which females outweigh is equal to 0.89%, whereas for the ones where males prevail is equal to 1.82%. However, these numbers are not different statistically (even 90% confidence bands cross each other). A similar pattern was registered concerning experience depreciation for female- and male-dominated occupations: the estimated parameters are not distinguishable for the general population.

As for education obsolescence rates, in all the groups under focus, this measure is nil at any conventional level of significance.

 $\textbf{Table 3.2:} \ \ \textbf{Occupations by Strength of Female Proportion, RLMS 2018}$

Occupation	N fem	% fem	N total
1 Personal Care Workers	97	97.0%	100
2 Cleaners and Helpers	163	95.9%	170
3 Food Preparation Assistants	21	95.5%	22
4 Teaching Professionals	370	93.4%	396
5 General and Keyboard Clerks	71	93.4%	76
6 Other Clerical Support Workers	25	92.6%	27
7 Business and Administration Professionals	97	91.5%	106
8 Health Associate Professionals	192	91.4%	210
9 Health Professionals	79	87.8%	90
10 Sales Workers	350	86.6%	404
11 Customer Services Clerks	67	85.9%	78
12 Legal, Social and Cultural Professionals	169	80.5%	210
13 Business and Administration Associate Professionals	517	77.4%	668
14 Food Processing, Woodworking, Garment and Other Craft	t 51	77.3%	66
and Related Trades Workers			
15 Administrative and Commercial Managers	25	71.4%	35
16 Personal Services Workers	172	70.5%	244
17 Hospitality, Retail and Other Services Managers	38	69.1%	55
18 Legal, Social, Cultural and Related Associate Professionals	69	65.7%	105
19 Numerical and Material Recording Clerks	100	63.3%	158
20 Production and Specialized Services Managers	139	46.0%	302
21 Handicraft and Printing Workers	9	45.0%	20
22 Science and Engineering Professionals	101	42.8%	236
23 Stationary Plant and Machine Operators	72	39.6%	182
24 Agricultural, Forestry and Fishery Labourers	11	39.3%	28
25 Refuse Workers and Other Elementary Workers	30	39.0%	77
26 Miscellaneous non-ISCO	9	36.0%	25
27 Science and Engineering Associate Professionals	120	34.9%	344
28 Chief Executives, Senior Officials and Legislators	7	29.2%	24
29 Information and Communications Technology Professionals	s 15	21.7%	69
30 Labourers in Mining, Construction, Manufacturing and	d 24	20.9%	115
Transport	11	10.907	CO
31 Assemblers	11	18.3%	60
32 Building and Related Trades Workers (excluding Electricians)	- 23	11.1%	207
33 Protective Services Workers	23	10.7%	215
34 Electrical and Electronic Trades Workers	16	9.9%	162
35 Drivers and Mobile Plant Operators	23	4.1%	558
36 Metal, Machinery and Related Trades Workers	6	2.2%	267

 $\textbf{Table 3.3:} \ \, \text{Average Human Capital Depreciation Rates (DR) by Female- and Male-dominated Industries and Occupations, RLMS 2018}$

Statistic	Ind_F	$\mathbf{Ind}_{-}\mathbf{M}$	occfemale	$\overline{\text{occmale}}$
1 Experience, mean	14.06	13.01	13.67	12.67
2 Education, mean	23.45	22.97	21.67	23.48
3 DR Experience, %	0.89	1.82	1.55	1.40
4 DR Education, $\%$	0.00	0.00	0.00	0.00
5 DR Human Capital, %	0.89	1.82	1.55	1.40

3.2 Depreciation and Occupational Routineness

In addition to the examination of human capital depreciation rates in gender-dominated industries and occupations, we explored this parameter between groups generated by using an array of routine and non-routine task content metrics for ISCO-08. In this analysis, we rely on measures developed by Mihaylov and Tijdens (2019). Particularity, Routine Task Intensity measure (RTI) – a variable of interest – denoted a score difference between the summed routine task indices and the summed non-routine task indices: (RC + RM) - (NRA + NRI + NRM). Besides, we introduced a separate measure by bringing together the non-routine task indices: NRA + NRI + NRM. Further, exploiting the k-means clustering technique, for the metrics described, we created two respective categorical variables (drti and dnraim) with categories capturing *high*, *medium*, and *low* manifestations of the features.

Table ?? shows the results of comparing depreciation rates between individuals whose jobs invoke routine or non-routine tasks at a high, medium, or low level. The findings suggest that depreciation explained by experience does not differ substantially between people with various routine task intensity (due to confidence limits crossing, not shown). The same outcome also applies to workers varying in the degree of non-routine content at their jobs. Human capital loss due to education is equal to zero for each of the groups analyzed.

Table 3.4: Average Human	Capital Depreciation Rates	(DR) by Routineness	Classification, RLMS 2018

Statistic	High	Low	Medium	High	Low	Medium
1 Measure	drti	drti	drti	dnraim	dnraim	dnraim
2 Experience, mean	12.86	13.67	12.8	13.66	12.76	13.02
3 Education, mean	21.44	22.79	22.76	22.94	22.22	22.05
4 DR Experience, %	1.8	1.5	1.64	1.62	1.73	1.48
5 DR Education, $\%$	0	0	0	0	0	0
6 DR Human Capital, %	1.8	1.5	1.64	1.62	1.73	1.48

4 The Analysis of Regional Returns to Education in the Russian Federation

4.1 Data

To estimate returns to education in Russian regions, we used a Statistical Survey of Income and Participation in Social Programs, collected by Rosstat. The primary purpose of the Rosstat survey was to obtain statistical information, reflecting the role of wages, income from self-employment, property income, pensions, and social benefits in ensuring the material well-being of families. The survey contains data on trends in income and poverty variation among households with different socio-economic status. There are also variables on people's participation in social programs, their pension and health insurance, material and social security of low-income families, and the impact of social policy measures on people's well-being.

The 2018 data (the most recent year of the survey) was exploited in the current section. A sub-sample selected for the empirical modeling is identical to the one used for

the RLMS analysis: individuals aged 25-64 who are out of school and have positive labor market experience and income.

4.2 Methods

The classical Mincerian equation (described in the previous sections) was the main focus in the regional investigation of returns to education in Russia: we looked at how these returns vary across regions. Additionally, we took a step further and explored the determinants of the established variation. For this purpose, a multilevel regression analysis (mixed modeling) was leveraged. The equations of interest are as follows:

First level:

$$Log(Wage)_{ij} = b_{0j} + b_{1j} \cdot Educ + b_{2j} \cdot Exp + b_{3j} \cdot Exp^2 + b_{4j} \cdot Gender + \epsilon_{ij}$$

Second Level:

$$b_{0j} = \gamma_{00} + \gamma_{0n} \cdot Z + u_{00}$$

 $b_{1j} = \gamma_{10} + \gamma_{1n} \cdot Z + u_{10}$
 $b_{ij} = \gamma_{i0} \quad for \quad i \neq 0$

where an individual i is nested withing a region j, Log(Wage) is a logarithm of monthly wage, Educ stands for 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, Z is an $n \times i$ matrix of regional characteristics, ϵ and u_{00} , u_{10} are the first-and second-level errors respectively.

Mixed models were estimated using restricted maximum likelihood (REML). Individual Wald tests and likelihood ratio tests were exploited to evaluate the significance of fixed and random effects, respectively. It should be noted that we also used weights in the modeling to ensure the representativeness of the sample across Russian regions (the weighting variable was divided by 1000 to allow the convergence of the multilevel models).

4.3 Measures

Dependent variable

Similar to the previous analyses, a logged amount of money remuneration before income tax payment at the main place of work (R_DEN) was utilized as an outcome of interest.

Independent variables

Education, working experience, and gender were treated as the first-level independent variables. Education $(I01_10)$ – a central predictor — was plugged into the multilevel models in its categorical form. Gender $(H01_01)$ was leveraged as a dichotomous variable. To calculate the labor market experience variable, we relied on the same naive strategy as in the previous section.

The predictors used at the second level were as follows: gross regional product, urbanization level, coverage by higher and vocational education (the number of students per 10,000 people in a region), quality of education, regional unemployment level and a share of people in jobs related to natural resources. Quality of education measure reflected a

regional performance of students on the EGE - a Russian school-leaving exam (see Parandekar and Shmis 2018 for the details of the variable generation). The rest of the attributes were taken from the Rosstat website. Table ?? demonstrates a descriptive statistics by regions.

Table 4.1: Descriptive Statistics for the Variables by Regions in Russia, Rosstat 2018

	Wage Experienc	e Educat	ion, %	Gender	·, %		
Regions	N mean sd mean sd	SE VE		Males Fe			
Altayskiy Kray	4646 22127.6 11952.2	23.6	11.0 17.4	456 54.50	28.05	48.90	51.10
Amurskaya Oblast	2557 33441.2 17409.0	23.2	11.2 16.3	347 50.65	33.01	49.59	50.41
Arkhangelskaya Oblast	3183 33438.1 16884.2	22.6	10.6 12.6	592 54.95	32.36	44.17	55.83
Astrakhanskaya Oblast	2836 26474.1 13737.6	23.0	11.3 13.6	546 55.08	31.28	50.99	49.01
Belgorodskaya Oblast	3692 26281.0 10811.9	23.8	11.1 12.3	351 54.47	33.18	49.76	50.24
Bryanskaya Oblast	3087 22482.3 9634.1	23.5	10.9 19.0	531 50.66	29.71	48.66	51.34
Chechenskaya Respublika	2010 27718.4 11793.2	18.7	10.6 25.2	721 26.37	47.91	65.37	34.63
Chelyabinskaya Oblast	6717 27990.8 14280.9		11.2 12.3	104 54.53	33.36	47.39	52.61
Chukotskiy Aok	1535 65574.1 32370.8			941 46.06	40.00	43.97	56.03
Chuvashskaya Respublika	3248 21453.7 12602.2			119 50.80	30.08	50.18	49.82
Evreyskaya AOb	1536 28532.1 17385.1	23.8		005 50.33	27.67	50.00	50.00
Irkutskaya Oblast	4686 29967.6 17443.1			520 47.06	35.42	47.57	52.43
Ivanovskaya Oblast	2876 24881.8 12496.8	23.3		341 49.90	29.76	47.77	52.23
Kabardino-Balkarskaya Res.	2006 23592.3 10766.2	21.7		137 40.53	38.33	52.04	47.96
Kaliningradskaya Oblast	2838 29749.2 15489.1			195 52.40	34.11	50.07	49.93
Kaluzhskaya Oblast	3155 29662.1 12879.5				34.58	47.92	52.08
Kamchatskaya Kray	2203 51160.5 29997.7			118 42.99	43.89	47.89	52.11
Karachayevo-Cherkessiya	1510 22900.6 12540.8			152 40.07	42.78	48.01	51.99
Kemerovskaya Oblast	5056 26287.0 13774.4			137 52.99	28.88	48.04	51.96
Khabarovskiy Kray	3731 42008.8 21837.8			900 44.33	43.77	46.15	53.85
Khanty-Mansiyskiy Aok	4335 50837.9 22261.7			564 46.78	39.65	49.60	50.40
Kirovskaya Oblast	3284 22941.0 13674.6 2518 23993.1 12090.9	25.1 23.6		128 55.33	24.54 26.05	47.69 47.82	52.31
Kostromskaya Oblast	2518 23993.1 12090.9 8730 32563.7 17499.8			669 61.28 888 48.57	35.54	50.02	52.18 49.98
Krasnodarskiy Kray Krasnoyarskiy Kray	5540 33954.6 21199.2	23.0		588 48.05	30.36	49.64	50.36
Kurganskaya Oblast	2468 20896.9 11539.5	24.4		394 52.47	26.13	48.38	51.62
Kurskaya Oblast	2956 23622.6 11475.0			783 52.17	33.05	50.30	49.70
Leningradskaya Oblast	4506 32124.3 17227.4			723 54.77	37.51	46.03	53.97
Lipetskaya Oblast	2869 25037.8 10813.5	24.1		106 53.82	33.08	49.60	50.40
Magadanskaya Oblast	1841 51000.8 23729.4	24.1		523 43.02	38.46	43.24	56.76
Moscow	29921 66263.5 26437.9			953 32.18	62.86	47.06	52.94
Moskovskaya Oblast	13431 46725.1 20563.7	22.6		975 39.13	49.89	47.51	52.49
Murmanskaya Oblast	3078 43992.5 28841.9	23.4		801 50.45	36.74	49.84	50.16
Nenetskiy Aok	1118 54467.3 23147.1			263 49.73	33.01	39.98	60.02
Nizhegorodskaya Oblast	6139 30912.9 13291.8	23.4	11.2 16.9	941 49.31	33.75	47.42	52.58
Novgorodskaya Oblast	2673 26856.0 12683.0	24.6	11.2 15.0	538 55.74	28.62	45.16	54.84
Novosibirskaya Oblast	5374 29229.9 14687.7	23.9	11.6 16.5	561 49.33	34.11	47.06	52.94
Omskaya Oblast	3978 25337.5 14613.1	23.6		197 51.31		51.11	48.89
Orenburgskaya Oblast	4190 24207.0 12519.9	23.3	11.0 15.3	131 53.68	31.19	51.29	48.71
Orlovskaya Oblast	2424 21901.2 10561.0			017 50.66		46.99	53.01
Penzenskaya Oblast	3103 23478.4 10982.9	24.2		.722 51.40		51.02	48.98
Permskiy Krai	5290 29176.6 14449.4	23.4		5.894 58.32		48.17	51.83
Primorskiy Kray	4104 37839.9 18420.2	23.8		.985 52.97		49.98	50.02
Pskovskaya Oblast	2382 23838.4 12015.3	25.0		7.632 55.33		48.11	51.89
Respublika Adygeya	2013 21350.3 10505.9	23.4		.666 43.67		49.53	50.47
Respublika Altay	1381 20285.3 12029.5	23.0		.027 45.26		43.08	56.92
Respublika Bashkortostan	7126 31100.8 15175.2	23.4		.167 56.67		51.98	48.02
Respublika Buryatia	2469 29536.3 17237.4	22.1		'.173 45.61		48.12	51.88
Respublika Crimea	2895 19916.2 9743.9	22.8		.244 43.90		52.99	47.01
Respublika Dagestan	3388 26377.3 11971.9	23.0		0.519 30.79		55.99 61.14	44.01
Respublika Ingushetiya	1207 23740.2 10168.5	18.2		0.025 18.89		61.14	38.86
Respublika Kalmykiya	1751 18568.8 11749.1	23.6		5.762 40.89 7144 55.45		46.43	53.57 53.00
Respublika Karelia Respublika Khakasiya	2164 28510.2 16639.5 2064 27288.1 16613.3	23.7 23.3		'.144 55.45 045 51.11		47.00 50.97	53.00 49.03
певриннка глаказіуа	2004 2/200.1 10013.3	23.3	11.1 22	045 51.11	20.04	50.97	47.03

Table 4.1: Descriptive Statistics for the Variables by Regions in Russia, Rosstat 2018

	Wage	Experience	Educati	ion, %	6 G	ender	, %		
Regions N	\mathbf{I} mean \mathbf{s}	d mean sd	SE VE	\mathbf{HE}	Mal	es Fei	$_{ m males}$		
Respublika Komi	2972 358	91.6 21554.4	23.8	11.0	16.689	53.47	29.85	46.67	53.33
Respublika Mariy El	2486 211	33.1 11941.6	24.1	11.2	18.785	52.98	28.24	47.87	52.13
Respublika Mordovia	2236 212	21.0 10837.3	23.1	11.2	15.519	49.11	35.38	48.35	51.65
Respublika Saha (Yakutia)	3243 457	63.1 25001.6	23.2	11.3	18.440	45.76	35.80	46.69	53.31
Respublika Severnaya Osetiya	2114 229	93.1 12762.5	21.8	11.3	12.677	40.92	46.40	48.91	51.09
Respublika Tatarstan	7212 303	27.9 12928.8	23.5	11.1	18.691	48.64	32.67	51.48	48.52
Respublika Tyva	1704 234	21.9 16851.3	21.4	10.0	19.777	44.78	35.45	40.43	59.57
Rostovskaya Oblast	6985 282	87.2 12779.9	23.1	11.0	15.476	48.03	36.49	50.68	49.32
Ryazanskaya Oblast	2609 258	89.2 11760.9	24.7	11.1	12.457	59.37	28.17	49.18	50.82
Saint-Petersburg	11352 485	20.8 23771.0	22.8	11.4	5.259	38.15	56.59	46.04	53.96
Sakhalinskaya Oblast	2258 503	25.1 25563.0	23.6	11.2	17.493	48.23	34.28	46.94	53.06
Samarskaya Oblast	6275 325	84.4 15015.6	23.8	11.1	11.331	47.87	40.80	47.71	52.29
Saratovskaya Oblast	4572 236	98.6 12322.4	23.7	10.8	14.961	50.22	34.82	50.42	49.58
Sevastopol	1489 248	11.3 13498.9	22.4	11.2	9.671	44.93	45.40	53.32	46.68
Smolenskaya Oblast	2726 255	17.8 12104.9	24.6	11.3	14.380	52.31	33.31	46.04	53.96
Stavropolskiy Kray	4945 252	63.6 12696.7	22.6	11.3	16.946	43.80	39.25	47.48	52.52
Sverdlovskaya Oblast	7712 359	83.2 15242.7	23.6	11.3	16.779	54.94	28.28	48.59	51.41
Tambovskaya Oblast	2781 226	98.6 10440.1	24.1	11.0	16.397	53.54	30.06	50.67	49.33
Tomskaya Oblast	3074 295	80.6 16745.7	22.1	11.1	13.500	47.56	38.94	46.78	53.22
Tulskaya Oblast	3516 276	87.4 11814.7	24.3	11.3	17.491	54.69	27.82	48.98	51.02
Tverskaya Oblast	3157 263	10.0 15025.1	25.5	11.1	14.824	56.57	28.60	44.73	55.27
Tyumenskaya Oblast	3095 314	41.2 17278.6	22.7	11.2	16.123	52.89	30.99	50.05	49.95
Udmurtskaya Respublika	4073 240	44.6 11540.9	23.9	11.3	20.108	51.04	28.85	46.99	53.01
Ul'yanovskaya Oblast	3109 232	15.3 10596.4	24.8	10.9	19.170	53.84	26.99	50.37	49.63
Vladimirskaya Oblast	3502 250	01.4 12605.8	24.5	11.4	19.503	50.77	29.73	46.49	53.51
Volgogradskaya Oblast	4836 244	59.0 12915.8	23.2	11.0	15.881	50.91	33.21	49.69	50.31
Vologodskaya Oblast	2965 282	48.9 16693.8	23.9	11.2	17.302	57.47	25.23	49.61	50.39
Voronezhskaya Oblast	4348 262	61.9 11813.9	23.6	11.5	22.700	43.38	33.92	48.37	51.63
Yamalo-Nenetskiy Aok	3164 693	56.7 28075.6	21.0	10.4	10.683	40.27	49.05	48.74	51.26
Yaroslavskaya Oblast	3361 302	61.4 14682.8	24.1	11.4	16.215	53.73	30.05	47.01	52.99
Zabaykalskiy Kray	3017 283	36.6 16350.4	23.0	10.6	24.561	47.40	28.04	47.07	52.93

4.4 Results of Regional Analysis

First, simple linear regression models were fitted to the observations in each region, and 95% confidence intervals for the education variable coefficients were returned to examine the overall pattern of regional diversity in education payoffs. A visual inspection of Figure ?? is illustrative of the fact that Russian regions are rather heterogeneous in terms of premiums to education. Further, a more formal statistical support for this fact underpinned by mixed modeling is provided.

A two-level empty means model was initially specified and indicated that ICC was equal to 16%, i.e., 16% of the variation in a wage outcome was between regions, which signifies that the multilevel structure is necessary. After plugging all the predictors into the model, a random slope for the education variable was added. Nested models comparison showed that there is a statistically significant regional variation in the effect of education on people's earnings $(-2 \triangle LL(1) = 413.54, p < .001)$.

Next, we examined the possible causes of this variation by adding the second-level independent variables and their interactions with education. The investigation revealed that none of the second-level characteristics are capable of changing the association between education and the amount of money Russians earn, except for the coverage by vocational education. Substantively, it means that growth in the number of students covered by vocational programs leads to higher schooling premiums concerning both vocational and university education. As for the estimates obtained, sufficiently high vocational education cover-

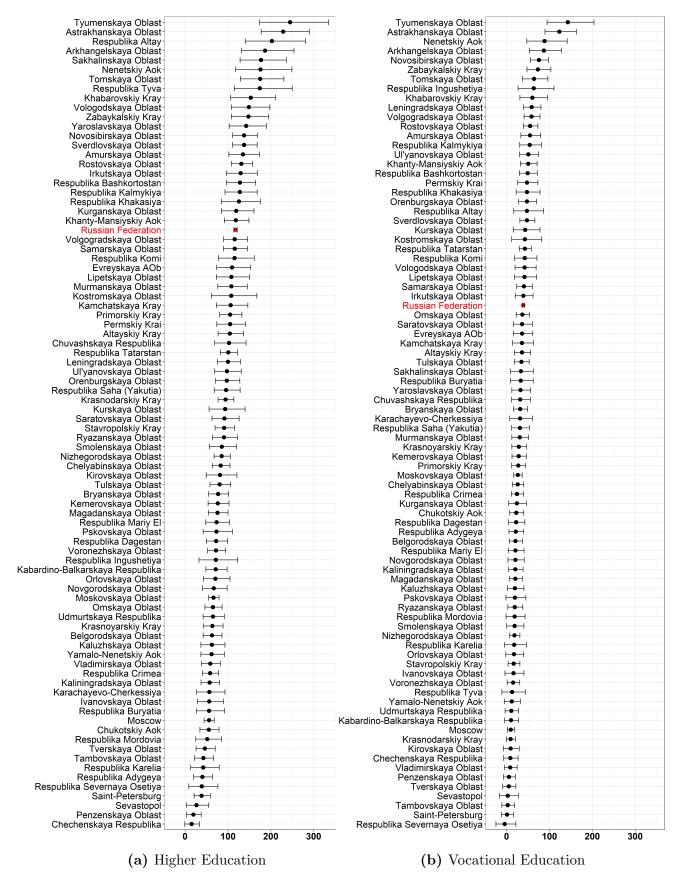


Figure 4.1: Rates of Returns (Percentages) to Higher and Vocational Education in Russian Regions, Rosstat 2018

age degree (when its standardized version is 1) corresponds to the average return rate of 30.6%; medium vocational education coverage degree (when its standardized version is 0) corresponds to the average return rate of 35.8%; low vocational education coverage degree (when its standardized version is -1) corresponds to the average return rate of 25.5%. The interpretation of such a finding can imply that this quantity-related dimension of vocational education has the potential to serve as an instrument of boosting financial payoffs from post-secondary education in Russian regions.

Although the outcomes on regional examination did not establish a whole lot of associations, the empirical work conducted remains an essential step in deepening our knowledge about returns to human capital in the Russian Federation.

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5 Appendix

Table 5.1: Results of Multilevel Modeling with Coverage by Vocational Education, Rosstat 2018

	Null model	Mincerian	Random Slope	Cross-Level Interaction
	(1)	(2)	(3)	(4)
Constant	10.178***	10.032***	10.056***	10.065***
	(0.034)	(0.034)	(0.036)	(0.036)
Vocational		0.283***	0.279***	0.267***
		(0.009)	(0.021)	(0.021)
Higher		0.638***	0.641***	0.622***
		(0.009)	(0.025)	(0.025)
Coverage VE X Vocational				0.050**
				(0.025)
Coverage VE X Higher				0.083***
				(0.030)
Experience		-0.026***	-0.027***	-0.027***
•		(0.002)	(0.002)	(0.002)
Experience squared		-0.065***	-0.065^{***}	-0.065***
		(0.002)	(0.002)	(0.002)
Females		-0.403***	-0.404***	-0.404***
		(0.005)	(0.005)	(0.005)
Coverage VE			-0.101***	-0.142***
			(0.039)	(0.043)
Variance of Intecept	0.09	0.08	0.09	0.09
Variance of Vocational			0.02	0.02
Variance of Higher			0.04	0.04
Residual Deviance	0.45	0.35	0.34	0.34
Observations	49,187	49,187	49,187	49,187
Log Likelihood	-59,755.060	$-53,\!289.500$	-53,094.620	-53,096.640
Akaike Inf. Crit.	119,516.100	106,595.000	106,217.200	106,225.300
Bayesian Inf. Crit.	119,542.500	106,665.400	106,340.500	106,366.100

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 5.2: Results of Mincer Analysis, RLMS 1994

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	10.892*** (10.632, 11.152)	10.974*** (10.578, 11.369)	10.319*** (9.979, 10.659)	11.777*** (11.598, 11.957)	11.947*** (11.673, 12.222)	11.132*** (10.901, 11.362)
Education, years	0.087^{***} $(0.073, 0.101)$	0.094^{***} $(0.072, 0.115)$	0.082^{***} (0.063, 0.101)			
Vocational education				0.142^{***} $(0.060, 0.225)$	0.135^{**} $(0.011, 0.260)$	0.156^{***} (0.046, 0.266)
Higher education				0.518^{***} $(0.424, 0.611)$	0.549^{***} $(0.407, 0.691)$	0.501^{***} $(0.378, 0.625)$
Experience	0.034^{***} $(0.020, 0.049)$	0.023* $(-0.0002, 0.046)$	0.043^{***} $(0.024, 0.062)$	0.036^{***} $(0.021, 0.051)$	0.024^{**} $(0.0005, 0.047)$	0.045^{***} $(0.026, 0.065)$
Experience squared	$-0.001^{***} (-0.001, -0.0004)$	$-0.001^{**} \\ (-0.001, -0.0001)$	$-0.001^{***} \\ (-0.001, -0.0004)$	$-0.001^{***} (-0.001, -0.0004)$	-0.001^{**} $(-0.001, -0.0001)$	$-0.001^{***} (-0.001, -0.0005)$
Female	$\begin{array}{c} -0.501^{***} \\ (-0.565, -0.436) \end{array}$			$-0.499^{***} \\ (-0.564, -0.435)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic Note:	3,044 0.110 0.109 0.901 94.102***	1,397 0.055 0.053 0.952 27.011***	1,647 0.050 0.048 0.854 28.581***	3,044 0.109 0.107 0.902 73.949***	1,397 0.052 0.049 0.954 19.011***	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Table 5.3: Results of Mincer Analysis, RLMS 1995

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	11.708^{***} $(11.433, 11.984)$	12.079^{***} (11.674, 12.484)	$10.920^{***} (10.548, 11.291)$	$12.540^{***} $ (12.354, 12.727)	$12.844^{***} $ $(12.566, 13.121)$	11.835^{***} (11.587, 12.082)
Education, years	0.080^{***} $(0.065, 0.095)$	0.073^{***} $(0.050, 0.096)$	0.089^{***} $(0.068, 0.109)$			
Vocational education				0.085* (-0.002, 0.172)	0.062 $(-0.067, 0.190)$	(-0.009, 0.230)
Higher education				0.442^{***} (0.346, 0.539)	0.393^{***} $(0.251, 0.534)$	0.498^{***} $(0.366, 0.631)$
Experience	0.033^{***} (0.018, 0.048)	$\begin{pmatrix} 0.010 \\ (-0.013, 0.033) \end{pmatrix}$	0.053^{***} $(0.032, 0.073)$	0.035^{***} $(0.020, 0.051)$	$\begin{pmatrix} 0.012 \\ (-0.011, 0.035) \end{pmatrix}$	0.055^{***} $(0.034, 0.075)$
Experience squared	$\begin{array}{cccc} -0.001^{***} & -0.001 \\ (-0.001, -0.0004) & (-0.001 \end{array}$	-0.0003 $(-0.001, 0.0002)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.001) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$	-0.0004 $(-0.001, 0.0001)$	$\begin{array}{c} -0.001^{***} \\ (-0.002, -0.001) \end{array}$
Female	-0.439^{***} $(-0.506, -0.371)$			-0.437^{***} $(-0.505, -0.369)$		
Observations R ² Adjusted R ²	2,694 0.093 0.091	1,238 0.036 0.034	1,456 0.057 0.055	2,694 0.093 0.091	1,238 0.036 0.033	1,456 0.058 0.055
F Statistic	68.547***	15.338***	29.289***	54.958***	11.401***	22.178***
Note:					*p<0.1; **	*p<0.1; **p<0.05; ***p<0.01

Table 5.4: Results of Mincer Analysis, RLMS 1996

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	12.412*** (12.100, 12.725)	12.539*** (12.066, 13.013)	11.814*** (11.401, 12.227)	13.167*** (12.956, 13.378)	13.306*** (12.987, 13.625)	12.568*** (12.292, 12.843)
Education, years	0.075^{***} $(0.057, 0.092)$	0.076^{***} $(0.049, 0.103)$	$0.074^{***} $ $(0.051, 0.098)$			
Vocational education				$0.127^{**} \\ (0.025, 0.230)$	$\begin{pmatrix} 0.130 \\ (-0.026, 0.286) \end{pmatrix}$	0.126^* $(-0.010, 0.261)$
Higher education				0.407^{***} $(0.295, 0.519)$	0.403^{***} $(0.232, 0.574)$	$0.412^{***} $ $(0.265, 0.560)$
Experience	0.009 $(-0.008, 0.026)$	$ \begin{array}{c} -0.001 \\ (-0.027, 0.025) \end{array} $	$\begin{pmatrix} 0.018 \\ (-0.005, 0.040) \end{pmatrix}$	$\begin{pmatrix} 0.011 \\ (-0.006, 0.028) \end{pmatrix}$	$\begin{pmatrix} 0.001 \\ (-0.025, 0.027) \end{pmatrix}$	0.019* $(-0.003, 0.042)$
Experience squared	$-0.0003 \\ (-0.001, 0.0001) $ ($-0.0001 \\ (-0.001, 0.0004)$	-0.0004 $(-0.001, 0.0001)$	-0.0003* $(-0.001, 0.00005)$	-0.0002 $(-0.001, 0.0004)$	-0.0004^* $(-0.001, 0.0001)$
Female	$\begin{array}{c} -0.483^{***} \\ (-0.559, -0.406) \end{array}$			$-0.480^{***} \\ (-0.556, -0.403)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	2,282 0.090 0.088 0.927 56.097***	1,034 0.037 0.035 0.974 13.324***	1,248 0.033 0.031 0.886 14.098***	2,282 0.086 0.084 0.929 43.041***	1,034 0.032 0.028 0.977 8.574***	1,248 0.031 0.028 0.887 9.880***
Note:					*p<0.1; **p	*p<0.1; **p<0.05; ***p<0.01

Table 5.5: Results of Mincer Analysis, RLMS 1998

	Total (1)	Males	Females (3)	Total (4)	Males (5)	Females (6)
Constant	5.219*** (4.997, 5.442)	5.425*** (5.090, 5.760)	$4.564^{***} $ $(4.267, 4.861)$	6.139*** (5.987, 6.291)	6.338*** (6.106, 6.571)	5.502^{***} (5.303, 5.700)
Education, years	0.097^{***} (0.084, 0.109)	0.095^{***} (0.076, 0.114)	0.099^{***} (0.083, 0.116)			
Vocational education				$0.214^{***} $ $(0.143, 0.286)$	0.175^{***} $(0.070, 0.280)$	0.257^{***} $(0.158, 0.355)$
Higher education				0.581^{***} $(0.500, 0.662)$	0.556^{***} $(0.435, 0.677)$	0.615^{***} $(0.506, 0.725)$
Experience	0.029^{***} $(0.017, 0.041)$	$0.013 \\ (-0.005, 0.032)$	0.041^{***} $(0.025, 0.057)$	0.032^{***} $(0.020, 0.044)$	0.018^* $(-0.001, 0.037)$	0.043^{***} $(0.027, 0.059)$
Experience squared	$-0.001^{***} \\ (-0.001, -0.0004)$	$\begin{array}{cccc} -0.001^{***} & -0.0004^{*} \\ (-0.001, -0.0004) & (-0.001, 0.00003) \end{array}$	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$	-0.0005** $(-0.001, -0.0001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.001) \end{array}$
Female	$-0.476^{***} \\ (-0.530, -0.422)$			$\begin{array}{c} -0.471^{***} \\ (-0.525, -0.416) \end{array}$		
Observations R ²	3,102 0.139	1,434	1,668	3,102	1,434	1,668
Adjusted R ²	0.138	0.067	0.083	0.137	0.064	0.083
Residual Std. Error F Statistic	0.765 125.414^{***}	0.803 35.348***	0.730 51.380***	0.765 99.388***	0.804 $25.536***$	0.730
Note:					*p<0.1; **p	*p<0.1; **p<0.05; ***p<0.01

Table 5.6: Results of Mincer Analysis, RLMS 2000

Constant 5.	(1)	(2)	(3)	(4)	(5)	(6)
	5.920*** (5.689, 6.152)	6.311*** (5.966, 6.655)	5.023*** (4.710, 5.336)	6.887*** (6.736, 7.038)	7.183*** (6.961, 7.405)	6.072*** (5.869, 6.276)
Education, years 0. (0.08	0.098^{***} (0.084, 0.111)	0.086^{***} (0.065, 0.106)	0.110^{***} $(0.092, 0.128)$			
Vocational education				0.193^{***} $(0.117, 0.269)$	0.118^{**} $(0.008, 0.228)$	0.283^{***} (0.178, 0.388)
Higher education				0.554^{***} $(0.469, 0.640)$	0.450^{***} $(0.323, 0.578)$	0.668^{***} $(0.553, 0.784)$
Experience 0.	0.025^{***} (0.013, 0.037)	$0.006 \\ (-0.012, 0.025)$	$0.041^{***} $ $(0.024, 0.057)$	0.027^{***} $(0.015, 0.039)$	0.009 $(-0.009, 0.028)$	0.042^{***} $(0.025, 0.058)$
Experience squared -0	-0.001^{***} .001, -0.0003)	$\begin{array}{cccc} -0.001^{***} & -0.0002 \\ (-0.001, -0.0003) & (-0.001, 0.0001) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0003) \end{array}$	-0.0003^* $(-0.001, 0.0001)$	-0.001^{***} $(-0.001, -0.0005)$
Female -0.59	$(-0.538^{***}$ (-0.596, -0.480)			-0.533^{***} $(-0.590, -0.475)$		
Observations (B2	3,215	1,477	1,738	3,215	1,477	1,738
justed R ²	0.136	0.051	0.082	0.131	0.044	0.080
Residual Std. Error (F Statistic 127	0.825 $127.527***$	0.856 $27.384***$	0.796 $53.004***$	0.828 $98.038***$	0.859 $17.961***$	0.797 38.813***

Table 5.7: Results of Mincer Analysis, RLMS 2001

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	6.383*** (6.168, 6.598)	6.648*** (6.329, 6.968)	5.647*** (5.355, 5.939)	7.415*** (7.277, 7.554)	7.592*** (7.389, 7.795)	6.758*** (6.569, 6.947)
Education, years	0.103^{***} $(0.091, 0.116)$	0.092^{***} (0.073, 0.111)	0.116^{***} $(0.099, 0.132)$			
Vocational education				0.188^{***} $(0.117, 0.260)$	0.111^{**} $(0.008, 0.213)$	0.293^{***} $(0.193, 0.393)$
Higher education				0.589*** $(0.511, 0.668)$	0.496^{***} $(0.380, 0.612)$	0.711^{***} $(0.603, 0.819)$
Experience	0.008 $(-0.004, 0.019)$	$\begin{pmatrix} 0.001 \\ (-0.016, 0.018) \end{pmatrix}$	$\begin{pmatrix} 0.013 \\ (-0.003, 0.029) \end{pmatrix}$	$0.010 \\ (-0.002, 0.021)$	$\begin{pmatrix} 0.004 \\ (-0.014, 0.021) \end{pmatrix}$	0.013 $(-0.003, 0.029)$
Experience squared	-0.0002 $(-0.0004, 0.0001)$	$ \begin{array}{cccc} -0.0002 & -0.0001 \\ (-0.0004, 0.0001) & (-0.0005, 0.0002) \end{array} $	-0.0002 $(-0.001, 0.0001)$	-0.0002* $(-0.0005, 0.00002)$	-0.0002 $(-0.001, 0.0002)$	-0.0002 $(-0.001, 0.0001)$
Female	$\begin{array}{c} -0.466^{***} \\ (-0.519, -0.412) \end{array}$			$\begin{array}{c} -0.465^{***} \\ (-0.519, -0.412) \end{array}$		
Observations R ² Adjusted R ²	3,605 0.127 0.126	1,673 0.060 0.058	1,932 0.090 0.088	3,605 0.126 0.125	1,673 0.057 0.055	1,932 0.092 0.090
Residual Std. Error F Statistic	0.811 131.270^{***}	0.851 $35.323***$	0.774 $63.474***$	0.812 $103.747***$	0.852 25.340^{***}	0.773 48.998***
Note:					*p<0.1; **p	*p<0.1; **p<0.05; ***p<0.01

Table 5.8: Results of Mincer Analysis, RLMS 2002

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	6.584*** (6.391, 6.777)	6.852*** (6.567, 7.137)	5.884*** (5.620, 6.147)	7.597*** (7.472, 7.722)	7.795*** (7.614, 7.976)	6.957*** (6.785, 7.129)
Education, years	0.103^{***} $(0.092, 0.114)$	0.093^{***} $(0.076, 0.111)$	0.113^{***} $(0.098, 0.128)$			
Vocational education				0.192^{***} $(0.128, 0.257)$	0.120^{**} (0.028, 0.211)	0.283^{***} (0.192, 0.374)
Higher education				0.582^{***} (0.511, 0.653)	0.498^{***} (0.394, 0.602)	0.686^{***} (0.588, 0.784)
Experience	0.021^{***} (0.011, 0.032)	$0.012 \\ (-0.003, 0.028)$	0.028^{***} (0.014, 0.042)	0.024^{***} (0.013, 0.034)	0.016^{**} (0.001, 0.032)	0.029^{***} (0.014, 0.043)
Experience squared	$-0.0004^{***} \\ (-0.001, -0.0002)$	$\begin{array}{cccc} -0.0004^{***} & -0.0004^{**} \\ (-0.001, -0.0002) & (-0.001, -0.0001) \end{array}$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0002) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0003)$	-0.0005^{***} $(-0.001, -0.0001)$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0002) \end{array}$
Female	$-0.443^{***} \\ (-0.491, -0.396)$			$\begin{array}{c} -0.442^{***} \\ (-0.490, -0.394) \end{array}$		
Observations R ²	3,803	1,748	2,055	3,803	1,748	2,055
Adjusted R ²	0.136	0.071	0.097	0.133	0.066	0.097
Residual Std. Error F Statistic	0.746 150.882^{***}	0.770 $45.377***$	0.722 $74.224***$	0.747 $117.987***$	0.771 31.968***	0.722 56.066^{***}

Table 5.9: Results of Mincer Analysis, RLMS 2003

(1) Constant 6.862*** (6.671, 7.053) Education, years 0.104*** Vocational education	1) ;2*** 7.053)	(2) 7.204***	(3)	(4)	(5)	(0)
	,2*** 7.053)	7.204***			(6)	(0)
		(6.922, 7.486)	6.054^{***} (5.793, 6.315)	7.887*** (7.763, 8.011)	8.127*** (7.945, 8.308)	7.167*** (7.001, 7.333)
Vocational education	/4*** 0.116)	0.089^{***} (0.073, 0.106)	0.119^{***} $(0.104, 0.134)$			
				0.209^{***} (0.144, 0.273)	$0.114^{**} $ $(0.023, 0.204)$	0.323^{***} $(0.232, 0.414)$
Higher education				0.590^{***} (0.519, 0.661)	0.456^{***} (0.353, 0.558)	0.740^{***} $(0.642, 0.838)$
Experience 0.018*** (0.007, 0.028)	8*** 0.028)	0.009 $(-0.007, 0.024)$	0.025^{***} (0.011, 0.038)	0.020^{***} $(0.009, 0.030)$	$\begin{pmatrix} 0.011 \\ (-0.005, 0.027) \end{pmatrix}$	0.025^{***} (0.011, 0.039)
Experience squared -0.00 (-0.001 ,	$-0.0004^{***} (-0.001, -0.0002)$	$-0.0004^{**} (-0.001, -0.00002)$	-0.0005^{***} $(-0.001, -0.0002)$	-0.0005^{***} $(-0.001, -0.0002)$	-0.0004^{**} $(-0.001, -0.0001)$	$-0.0005^{***} \\ (-0.001, -0.0002)$
Female -0.491^{***} $(-0.538, -0.444)$	-0.491^{***} .538, -0.444)			-0.485^{***} $(-0.533, -0.438)$		
Observations 3,8	3,858	1,765	2,093	3,858	1,765	2,093
justed R ²	0.157	0.077	0.106	0.152	0.067	0.108
. Error	0.743 $180.727***$	0.753 $49.918***$	0.732 $83.800***$	0.746 $139.128***$	0.757 $32.690***$	0.731 $64.384***$

Table 5.10: Results of Mincer Analysis, RLMS 2004

		IVIGICS	Females	Total	Males	Females
	(1)	(2)	(3)	(4)	(2)	(9)
:	7.235*** (7.054, 7.415)	7.559*** (7.293, 7.825)	6.437*** (6.191, 6.683)	8.216*** (8.100, 8.332)	8.404*** (8.233, 8.574)	7.553*** (7.397, 7.710)
Education, years (0	0.097^{***} $(0.087, 0.108)$	0.084^{***} $(0.068, 0.099)$	0.111^{***} $(0.097, 0.125)$			
Vocational education				0.151^{***} $(0.090, 0.212)$	0.135^{***} $(0.050, 0.221)$	0.180^{***} (0.093, 0.267)
Higher education				0.525^{***} $(0.458, 0.593)$	0.443^{***} $(0.345, 0.540)$	0.610^{***} (0.516, 0.704)
Experience (0	0.015^{***} $(0.006, 0.025)$	$\begin{pmatrix} 0.005 \\ (-0.009, 0.020) \end{pmatrix}$	0.022^{***} (0.009, 0.035)	0.018^{***} (0.008, 0.027)	0.007 $(-0.007, 0.022)$	$0.024^{***} $ $(0.011, 0.038)$
Experience squared (-0)	-0.0004^{***}	$\begin{array}{cccc} -0.0004^{***} & -0.0003^{*} \\ (-0.001, -0.0002) & (-0.001, 0.00000) \end{array}$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0002) \end{array}$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0003) \end{array}$	$\begin{array}{c} -0.0004^{**} \\ (-0.001, -0.00005) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0002) \end{array}$
Female (-0)	$\begin{array}{c} -0.498^{***} \\ (-0.543, -0.454) \end{array}$			$-0.494^{***} \\ (-0.538, -0.449)$		
Observations	3,968	1,824	2,144	3,968	1,824	2,144
$ m Adiusted~R^2$	0.169	0.083	$0.100 \\ 0.105$	$0.162 \\ 0.161$	0.073	0.099
. Error	0.706 $202.301***$	0.720 55.701^{***}	0.690 84.918***	0.709 $153.588***$	0.724 $36.626***$	0.693 59.781^{***}

Table 5.11: Results of Mincer Analysis, RLMS 2005

	Total	Males	Females	Total	Males	Females
	(1)	(2)	(3)	(4)	(5)	(9)
Constant	7.585*** (7.406, 7.764)	7.969*** (7.703, 8.235)	6.729*** (6.485, 6.972)	8.543*** (8.430, 8.657)	8.722*** (8.555, 8.890)	7.868*** (7.715, 8.021)
Education, years	0.095^{***} $(0.084, 0.105)$	$0.074^{***} \\ (0.059, 0.090)$	0.113^{***} $(0.099, 0.127)$			
Vocational education				0.140^{***} $(0.079, 0.201)$	0.110^{**} $(0.026, 0.195)$	0.189^{***} $(0.101, 0.277)$
Higher education				0.515^{***} $(0.448, 0.582)$	0.388^{***} $(0.291, 0.484)$	0.640^{***} (0.546, 0.734)
Experience	$0.005 \\ (-0.005, 0.014)$	-0.004 $(-0.018, 0.010)$	(-0.0011^*)	0.007 $(-0.003, 0.016)$	-0.002 $(-0.016, 0.013)$	0.013^{**} $(0.0004, 0.025)$
Experience squared	-0.0002* -0.0004, 0.00002) (-0.0004, 0.00002)	-0.0001 $(-0.0004, 0.0002)$	-0.0003^* $(-0.001, 0.00001)$	$\begin{array}{c} -0.0002^{**} \\ (-0.0004, -0.00003) \end{array}$	-0.0001 $(-0.0004, 0.0002)$	-0.0003^{**} $(-0.001, -0.00001)$
Female	$\begin{array}{c} -0.503^{***} \\ (-0.548, -0.459) \end{array}$			-0.498*** $(-0.542, -0.453)$		
Observations R ²	3,913	1,801	2,112	3,913	1,801	2,112
Adjusted R ²	0.169	0.067	0.114	0.163	0.059	0.111
Residual Std. Error F Statistic	0.701 $199.368***$	0.716 $44.143***$	0.685 $91.939***$	0.703 $153.455***$	0.719 $29.157***$	0.686 $67.046***$

Table 5.12: Results of Mincer Analysis, RLMS 2006

	Total	Males	Females	Total	Males	Females
	(1)	(2)	(3)	(4)	(5)	(9)
Constant	7.788*** (7.634, 7.942)	8.149*** (7.917, 8.381)	7.011*** (6.804, 7.218)	8.754^{***} $(8.654, 8.854)$	8.878*** (8.729, 9.026)	8.173*** (8.039, 8.306)
Education, years	0.095^{***} $(0.086, 0.104)$	0.072^{***} $(0.058, 0.085)$	$0.114^{***} $ $(0.102, 0.126)$			
Vocational education				0.133^{***} $(0.080, 0.186)$	0.090^{**} (0.016, 0.164)	0.196^{***} (0.119, 0.274)
Higher education				0.530^{***} $(0.471, 0.589)$	0.397^{***} (0.312, 0.482)	0.658^{***} $(0.575, 0.741)$
Experience	$0.007* \\ (-0.001, 0.015)$	$\begin{pmatrix} 0.003 \\ (-0.010, 0.016) \end{pmatrix}$	0.010* (-0.001, 0.021)	0.008* (-0.00001, 0.017)	0.005 $(-0.008, 0.017)$	0.010^* $(-0.001, 0.021)$
Experience squared	$\begin{array}{cccc} -0.0003^{***} & -0.0002^{*} \\ (-0.0005, -0.0001) & (-0.001, 0.00002) \end{array}$	-0.0002^* $(-0.001, 0.00002)$	-0.0003** $(-0.001, -0.0001)$	$\begin{array}{c} -0.0003^{***} \\ (-0.0005, -0.0001) \end{array}$	$\begin{array}{c} -0.0003^{**} \\ (-0.001, -0.00002) \end{array}$	$\begin{array}{c} -0.0003^{**} \\ (-0.001, -0.0001) \end{array}$
Female	-0.468^{***} $(-0.506, -0.429)$			(-0.496, -0.418)		
Observations R ²	4,804	2,172	2,632	4,804	2,172	2,632
Adjusted R ²	0.173	0.073	0.139	0.169	0.070	0.132
Residual Std. Error F Statistic	0.676 252.792^{***}	0.688 58.011^{***}	0.664 142.254^{***}	0.678 $196.659***$	0.689 41.810^{***}	0.666 101.410^{***}

Table 5.13: Results of Mincer Analysis, RLMS 2007

	Total	Males	Females	Total	Males	Females
	(1)	(7)	(3)	(4)	(2)	(9)
Constant	8.192^{***} (8.045, 8.340)	8.530^{***} $(8.312, 8.747)$	7.461^{***} (7.258, 7.663)	8.990*** (8.895, 9.084)	9.099^{***} (8.961, 9.237)	8.461*** (8.333, 8.588)
Education, years	0.079^{***} $(0.070, 0.087)$	0.058^{***} $(0.045, 0.070)$	0.097^{***} (0.085, 0.108)			
Vocational education				0.131^{***} (0.081, 0.181)	0.136^{***} (0.068, 0.204)	0.138^{***} $(0.064, 0.211)$
Higher education				0.449^{***} $(0.394, 0.504)$	0.334^{***} $(0.256, 0.413)$	0.543^{***} $(0.465, 0.622)$
Experience	0.008** (0.00002, 0.016)	0.003 $(-0.009, 0.014)$	0.011^{**} $(0.001, 0.022)$	0.008^{**} $(0.0003, 0.016)$	$0.002 \\ (-0.010, 0.014)$	0.012^{**} $(0.002, 0.023)$
Experience squared	-0.0003^{***} $(-0.0005, -0.0002)$	-0.0003** $(-0.0005, -0.00001)$	-0.0003^{***} $(-0.001, -0.0001)$	-0.0003^{***} $(-0.0005, -0.0002)$	-0.0002* $(-0.0005, 0.00001)$	$\begin{array}{c} -0.0004^{***} \\ (-0.001, -0.0001) \end{array}$
Female	-0.437*** $(-0.474, -0.401)$			-0.430^{***} $(-0.466, -0.393)$		
Observations R ²	4,726	2,153	2,573	4,726	2,153	2,573
Adjusted R ²	0.166	0.069	0.120	0.162	0.064	0.118
Residual Std. Error F Statistic	0.635 $235.778***$	0.634 $54.316***$	0.633 $117.362***$	0.636 $184.134***$	0.635 $38.060***$	0.634 $86.643***$
Note:					*p<0.1; **	*p<0.1; **p<0.05; ***p<0.01

Table 5.14: Results of Mincer Analysis, RLMS 2008

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	8.156*** (8.000, 8.313)	8.412*** (8.178, 8.646)	7.473*** (7.260, 7.686)	9.073*** (8.974, 9.173)	9.146*** (9.000, 9.292)	8.549*** (8.414, 8.684)
Education, years	0.094^{***} $(0.085, 0.103)$	0.077^{***} $(0.063, 0.090)$	0.108^{***} $(0.096, 0.120)$			
Vocational education				0.150^{***} $(0.097, 0.204)$	0.133^{***} $(0.060, 0.206)$	0.178^{***} $(0.099, 0.257)$
Higher education				0.534^{***} $(0.475, 0.592)$	0.453^{***} $(0.370, 0.537)$	0.608^{***} $(0.524, 0.692)$
Experience	0.019^{***} $(0.011, 0.027)$	0.018^{***} $(0.006, 0.031)$	0.018^{***} $(0.008, 0.029)$	0.021^{***} (0.013, 0.029)	0.021^{***} (0.008, 0.033)	0.020^{***} (0.009, 0.031)
Experience squared	$-0.001^{***} \\ (-0.001, -0.0004)$	$\begin{array}{cccc} -0.001^{***} & -0.001^{***} \\ (-0.001, -0.0004) & (-0.001, -0.0003) \end{array}$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0002) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$	$-0.001^{***} (-0.001, -0.0003)$
Female	$\begin{array}{c} -0.462^{***} \\ (-0.501, -0.424) \end{array}$			$\begin{array}{c} -0.454^{***} \\ (-0.493, -0.415) \end{array}$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	4,827 0.177 0.176 0.677 258.436***	2,170 0.096 0.095 0.673 76.757***	2,657 0.126 0.125 0.678 128.012***	4,827 0.173 0.173 0.678 202.387***	2,170 0.097 0.095 0.673 58.016***	2,657 0.119 0.117 0.681 89.328***
Note:					*p<0.1; **	*p<0.1; **p<0.05; ***p<0.01

Table 5.15: Results of Mincer Analysis, RLMS 2009

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	8.175*** (8.025, 8.324)	8.539*** (8.320, 8.757)	7.416*** (7.208, 7.624)	9.070*** (8.975, 9.165)	9.208*** (9.071, 9.345)	8.510*** (8.379, 8.641)
Education, years	0.090^{***} (0.082, 0.099)	0.069^{***} (0.056, 0.082)	0.108*** $(0.097, 0.120)$			
Vocational education				0.132^{***} (0.080, 0.184)	0.097^{***} (0.026, 0.168)	0.176*** $(0.099, 0.253)$
Higher education				0.506^{***} (0.449, 0.563)	0.403*** $(0.323, 0.483)$	0.599*** $(0.517, 0.680)$
Experience	0.024^{***} $(0.016, 0.032)$	0.018^{***} $(0.007, 0.030)$	0.028*** (0.018, 0.038)	0.026^{***} (0.018, 0.034)	0.021^{***} (0.009, 0.032)	0.029*** $(0.019, 0.040)$
Experience squared	$-0.001^{***} \\ (-0.001, -0.0004)$	$\begin{array}{cccc} -0.001^{***} & -0.001^{***} \\ (-0.001, -0.0004) & (-0.001, -0.0003) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0005) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0004)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$
Female	$ \begin{array}{c} -0.445^{***} \\ (-0.482, -0.408) \end{array} $			-0.436^{***} $(-0.473, -0.399)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	4,804 0.174 0.173 0.645 252.711***	2,146 0.088 0.087 0.633 69.007***	2,658 0.129 0.128 0.651 131.128***	4,804 0.170 0.169 0.646 196.598***	2,146 0.089 0.087 0.633 52.357***	46 2,658 89 0.119 87 0.117 33 0.655 77*** 89.175***
1 v 0te.					p<0.1,	p<0.00, p<0.01

Table 5.16: Results of Mincer Analysis, RLMS 2010

	Total	Males	Females (2)	Total	Males	Females
Constant	8.412*** (8.293, 8.532)	8.622*** (8.444, 8.800)	7.791*** (7.628, 7.955)	9.275*** (9.200, 9.349)	9.327*** (9.216, 9.438)	8.811*** (8.710, 8.912)
Education, years	0.084^{***} $(0.077, 0.090)$	0.070^{***} $(0.060, 0.080)$	0.096^{***} (0.087, 0.105)			
Vocational education				0.108^{***} (0.066, 0.149)	0.106^{***} (0.048, 0.164)	0.116^{***} (0.055, 0.177)
Higher education				0.463^{***} (0.418, 0.508)	0.407^{***} $(0.342, 0.472)$	0.517^{***} (0.453, 0.582)
Experience	0.017*** $(0.011, 0.023)$	0.017^{***} (0.008, 0.026)	0.016^{***} (0.008, 0.024)	0.017^{***} (0.011, 0.023)	0.018^{***} (0.009, 0.028)	0.016^{***} (0.008, 0.024)
Experience squared	-0.0005^{***} $(-0.001, -0.0003)$	$-0.001^{***} \\ (-0.001, -0.0004)$	$\begin{array}{c} -0.0004^{***} \\ (-0.001, -0.0002) \end{array}$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0004) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0004)$	$-0.0004^{***} \\ (-0.001, -0.0002)$
Female	$ \begin{array}{c} -0.415^{***} \\ (-0.445, -0.385) \end{array} $			-0.406*** $(-0.436, -0.376)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	7,326 0.162 0.162 0.640 354.626***	3,319 0.094 0.094 0.650 115.111***	4,007 0.114 0.113 0.630 171.338***	7,326 0.159 0.158 0.641 276.674***	3,319 0.093 0.092 0.650 84.770***	4,007 0.108 0.107 0.632 120.673***
Note:					*p<0.1; **	*p<0.1; **p<0.05; ***p<0.01

Table 5.17: Results of Mincer Analysis, RLMS 2011

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	8.563*** (8.447, 8.679)	8.683*** (8.517, 8.850)	7.982*** (7.818, 8.145)	9.437*** (9.365, 9.509)	9.455*** (9.354, 9.557)	8.973*** (8.872, 9.074)
Education, years	0.082^{***} $(0.076, 0.089)$	0.074^{***} $(0.065, 0.084)$	0.090^{***} (0.081, 0.099)			
Vocational education				0.064^{***} $(0.025, 0.104)$	0.087^{***} (0.034, 0.139)	0.042 $(-0.018, 0.102)$
Higher education				0.424^{***} (0.381, 0.467)	0.404^{***} $(0.345, 0.464)$	0.440^{***} (0.376, 0.503)
Experience	0.018^{***} (0.012, 0.024)	0.020^{***} $(0.012, 0.029)$	0.016^{***} (0.009, 0.024)	0.019^{***} $(0.013, 0.025)$	0.021^{***} $(0.012, 0.030)$	0.018^{***} (0.010, 0.026)
Experience squared	$-0.001^{***} (-0.001, -0.0004)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0005) \end{array}$	$\begin{array}{c} -0.0004^{***} \\ (-0.001, -0.0003) \end{array}$	$-0.001^{***} (-0.001, -0.0004)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0005) \end{array}$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0003) \end{array}$
Female	$\begin{array}{c} -0.452^{***} \\ (-0.480, -0.423) \end{array}$			$\begin{array}{c} -0.442^{***} \\ (-0.470, -0.413) \end{array}$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	7,167 0.195 0.194 0.609 433.335***	3,271 0.125 0.125 0.596 156.109***	3,896 0.114 0.113 0.619 167.175***	7,167 0.190 0.189 0.611 335.273***	3,271 0.120 0.119 0.598 111.194***	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
					·	1 ())))

Table 5.18: Results of Mincer Analysis, RLMS 2012

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	8.777*** (8.664, 8.891)	8.905*** (8.743, 9.067)	8.163*** (8.002, 8.325)	9.593*** (9.521, 9.664)	9.610*** (9.510, 9.710)	9.108*** (9.008, 9.209)
Education, years	0.076^{***} (0.070, 0.083)	0.068^{***} $(0.059, 0.077)$	0.085^{***} (0.076, 0.094)			
Vocational education				0.050^{**} $(0.010, 0.089)$	0.081^{***} $(0.030, 0.133)$	$0.016 \\ (-0.044, 0.076)$
Higher education				0.398^{***} $(0.355, 0.441)$	0.378^{***} $(0.320, 0.436)$	0.412^{***} (0.349, 0.475)
Experience	0.023^{***} $(0.017, 0.028)$	0.027^{***} (0.019, 0.036)	0.018^{***} (0.011, 0.026)	0.023^{***} $(0.017, 0.029)$	0.027^{***} $(0.019, 0.035)$	0.020^{***} (0.012, 0.028)
Experience squared	$-0.001^{***} -0.001$ $(-0.001, -0.001) (-0.001,$	-0.001^{***} $(-0.001, -0.001)$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0003) \end{array}$	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.001) \end{array}$	-0.0005^{***} $(-0.001, -0.0003)$
Female	$\begin{array}{c} -0.473^{***} \\ (-0.502, -0.444) \end{array}$			-0.463^{***} $(-0.492, -0.434)$		
Observations R2 Adjusted R2 Residual Std. Error F Statistic Note:	7,428 0.199 0.199 0.624 461.919***	3,367 0.153 0.152 0.598 202.747***	4,061 0.104 0.103 0.640 156.563***	7,428 0.195 0.195 0.625 360.069***	3,367 0.149 0.148 0.599 146.920*** *p<0.1; **	367 4,061 149 0.100 148 0.099 599 0.642 \$20*** 112.228*** \$p<0.1; **p<0.05; ***p<0.01

Table 5.19: Results of Mincer Analysis, RLMS 2013

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	8.767*** (8.650, 8.883)	9.037*** (8.868, 9.206)	8.082*** (7.919, 8.245)	9.619*** (9.547, 9.692)	9.721*** (9.618, 9.825)	9.095*** (8.992, 9.197)
Education, years	0.081^{***} $(0.075, 0.088)$	0.065^{***} $(0.056, 0.075)$	0.095^{***} (0.086, 0.104)			
Vocational education				0.066^{***} $(0.025, 0.106)$	0.049* $(-0.004, 0.102)$	0.083^{***} (0.021, 0.145)
Higher education				0.429^{***} (0.385, 0.474)	0.351^{***} $(0.290, 0.412)$	0.500^{***} (0.435, 0.564)
Experience	0.023^{***} $(0.017, 0.029)$	0.022^{***} $(0.013, 0.030)$	0.023^{***} $(0.016, 0.031)$	0.024^{***} $(0.019, 0.030)$	0.023^{***} $(0.015, 0.032)$	$0.024^{***} $ $(0.016, 0.032)$
Experience squared	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.001) \end{array}$	$-0.001^{***} \\ (-0.001, -0.001)$	$-0.001^{***} \\ (-0.001, -0.0004)$	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.001) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0004)$
Female	$ \begin{array}{l} -0.437^{***} \\ (-0.466, -0.409) \end{array} $			-0.430^{***} $(-0.459, -0.402)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic Note:	7,327 0.190 0.189 0.620 429.120***	3,361 0.134 0.134 0.607 173.841***	3,966 0.124 0.123 0.627 186.948***	7,327 0.188 0.187 0.621 338.714***	3,361 0.133 0.132 0.608 128.699*** *p<0.1; **	3,966 133 0.121 132 0.120 508 0.628 599*** 135.959*** *p<0.1; **p<0.05; ***p<0.01

Table 5.20: Results of Mincer Analysis, RLMS 2014

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	8.776*** (8.651, 8.902)	8.998*** (8.811, 9.185)	8.170*** (7.997, 8.342)	9.678*** (9.599, 9.756)	9.738*** (9.622, 9.854)	9.226*** (9.118, 9.335)
Education, years	0.085*** $(0.077, 0.092)$	0.070^{***} $(0.060, 0.081)$	0.097^{***} (0.087, 0.106)			
Vocational education				0.066^{***} $(0.023, 0.110)$	0.058* (-0.001, 0.118)	0.069** $(0.003, 0.135)$
Higher education				0.440^{***} $(0.392, 0.487)$	0.378^{***} $(0.311, 0.445)$	0.487^{***} (0.419, 0.556)
Experience	0.025*** $(0.019, 0.032)$	0.025^{***} (0.016, 0.035)	0.024^{***} (0.016, 0.033)	0.026^{***} $(0.020, 0.032)$	$0.027^{***} $ $(0.017, 0.036)$	0.024^{***} $(0.016, 0.032)$
Experience squared	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{cccc} -0.001^{***} & -0.001^{***} \\ (-0.001, -0.001) & (-0.001, -0.001) \end{array}$	$-0.001^{***} (-0.001, -0.0004)$	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.001) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0004)$
Female	$\begin{array}{c} -0.415^{***} \\ (-0.446, -0.384) \end{array}$			-0.406^{***} $(-0.437, -0.375)$		
Observations R ²	6,148	2,795	3,353	6,148	2,795	3,353
Adjusted R ²	0.185	0.123	0.133	0.181	0.120	0.127
Residual Std. Error F Statistic	0.607 $350.151***$	0.612 131.812^{***}	0.600 $173.006***$	0.608 $272.697***$	0.613 $96.383***$	0.602 $122.801***$

Table 5.21: Results of Mincer Analysis, RLMS 2015

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	
Constant	8.991*** (8.868, 9.113)	9.111*** (8.936, 9.287)	8.460*** (8.286, 8.634)	9.752*** (9.676, 9.829)	9.760*** (9.652, 9.869)	9.343*** (9.234, 9.453)
Education, years	$0.074^{***} $ $(0.067, 0.081)$	0.066^{***} $(0.056, 0.076)$	0.081^{***} (0.072, 0.091)			
Vocational education				0.081^{***} $(0.037, 0.125)$	0.091^{***} $(0.034, 0.147)$	(-0.013, 0.126)
Higher education				0.406^{***} (0.359, 0.453)	0.381^{***} $(0.318, 0.444)$	0.413^{***} $(0.342, 0.484)$
Experience	0.022^{***} (0.016, 0.028)	0.025^{***} $(0.016, 0.033)$	0.020^{***} (0.011, 0.028)	0.023^{***} $(0.017, 0.029)$	0.027^{***} $(0.018, 0.035)$	0.019^{***} (0.011, 0.028)
Experience squared	$\begin{array}{c} -0.001^{***} \\ (-0.001, \ -0.0005) \end{array}$	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{c} -0.0005^{***} \\ (-0.001, -0.0003) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0005) \end{array}$	$-0.001^{***} \\ (-0.001, -0.001)$	-0.0005^{***} $(-0.001, -0.0003)$
Female	$\begin{array}{c} -0.424^{***} \\ (-0.454, -0.394) \end{array}$			-0.415^{***} $(-0.445, -0.385)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic Note:	6,231 0.185 0.184 0.591 352.153***	2,844 0.132 0.131 0.574 144.439***	3,387 0.104 0.103 0.604 130.774***	6,231 0.183 0.183 0.592 279.480***	2,844 0.133 0.131 0.574 108.570***	344 3,387 133 0.102 131 0.100 574 0.604 *p<0.1; **p<0.05; ***p<0.01

Table 5.22: Results of Mincer Analysis, RLMS 2016

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	Females (6)
Constant	8.935*** (8.808, 9.062)	9.142*** (8.965, 9.319)	8.343*** (8.160, 8.526)	9.762*** (9.682, 9.842)	9.856*** (9.746, 9.966)	9.290*** (9.173, 9.407)
Education, years	$0.077^{***} $ $(0.070, 0.084)$	0.067^{***} $(0.057, 0.077)$	0.085^{***} $(0.075, 0.096)$			
Vocational education				0.045^* $(-0.001, 0.091)$	0.038 $(-0.020, 0.097)$	0.039 $(-0.034, 0.112)$
Higher education				0.382^{***} $(0.333, 0.431)$	0.336^{***} $(0.272, 0.400)$	0.413^{***} $(0.339, 0.487)$
Experience	0.026^{***} $(0.020, 0.032)$	0.023^{***} (0.014, 0.031)	0.028^{***} (0.019, 0.036)	0.026^{***} (0.020, 0.032)	0.023^{***} (0.015, 0.032)	0.028^{***} (0.019, 0.036)
Experience squared	-0.001^{***} $(-0.001, -0.001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0005) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0004)$	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0005) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0004)$
Female	$ \begin{array}{c} -0.411^{***} \\ (-0.442, -0.380) \end{array} $			$-0.400^{***} \\ (-0.431, -0.369)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	6,297 0.166 0.165 0.612 312.012***	2,905 0.117 0.116 0.580 128.263***	3,392 0.095 0.094 0.636 118.501***	6,297 0.161 0.160 0.614 241.141***	2,905 0.112 0.111 0.582 91.747***	3,392 0.090 0.089 0.638 83.562***
Note:					*p<0.1; *;	*p<0.1; **p<0.05; ***p<0.01

Table 5.23: Results of Mincer Analysis, RLMS 2017

	Total	Males	Females	Total	Males	Females
	(I)	(2)	(3)	(4)	(c)	(9)
Constant	9.133^{***} (9.005, 9.261)	9.227^{***} (9.054, 9.400)	8.605^{***} (8.415, 8.795)	9.877*** (9.795, 9.959)	9.924^{***} (9.815, 10.033)	9.407^{***} (9.284, 9.530)
Education, years	0.070^{***} (0.063, 0.078)	0.066^{***} $(0.056, 0.076)$	0.074^{***} $(0.064, 0.085)$			
Vocational education				0.063^{***} $(0.016, 0.110)$	0.051^* $(-0.006, 0.108)$	0.065^* $(-0.012, 0.142)$
Higher education				0.370^{***} $(0.320, 0.420)$	0.345^{***} $(0.282, 0.409)$	0.388*** (0.309, 0.466)
Experience	0.022^{***} (0.015, 0.028)	0.021^{***} $(0.013, 0.030)$	0.022^{***} $(0.013, 0.031)$	0.022^{***} (0.016, 0.028)	0.022^{***} (0.013, 0.031)	0.021^{***} $(0.012, 0.030)$
Experience squared	$-0.001^{***} \\ (-0.001, -0.0004)$	$\begin{array}{cccc} -0.001^{***} & -0.001^{***} \\ (-0.001, -0.0004) & (-0.001, -0.0004) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0003) \end{array}$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0004) \end{array}$	$-0.001^{***} (-0.001, -0.0004)$	-0.0005^{***} $(-0.001, -0.0003)$
Female	$\begin{array}{c} -0.444^{***} \\ (-0.475, -0.413) \end{array}$			$-0.435^{***} \\ (-0.466, -0.404)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	6,359 0.167 0.167 0.623 319.218***	2,947 0.117 0.116 0.569 129.365***	3,412 0.075 0.074 0.665 92.396***	6,359 0.165 0.164 0.623 250.955***	2,947 0.113 0.112 0.570 93.789***	3,412 0.073 0.072 0.666 67.363***
Note:					*p<0.1; **	*p<0.1; **p<0.05; ***p<0.01

Table 5.24: Results of Mincer Analysis, RLMS 2018

	Total (1)	Males (2)	Females (3)	Total (4)	Males (5)	
Constant	9.164^{***} (9.039, 9.289)	9.352*** (9.170, 9.533)	8.611*** (8.437, 8.786)	9.894^{***} (9.813, 9.975)	9.999*** (9.883, 10.115)	9.420*** (9.306, 9.534)
Education, years	0.069*** $(0.062, 0.076)$	0.060^{***} $(0.050, 0.070)$	0.076^{***} $(0.067, 0.086)$			
Vocational education				0.072^{***} $(0.027, 0.118)$	$\begin{pmatrix} 0.038 \\ (-0.022, 0.097) \end{pmatrix}$	0.099^{***} $(0.029, 0.169)$
Higher education				0.364^{***} (0.316, 0.412)	0.305*** $(0.239, 0.370)$	0.413^{***} $(0.342, 0.484)$
Experience	0.026^{***} $(0.020, 0.032)$	0.023^{***} (0.014, 0.032)	0.028^{***} $(0.020, 0.036)$	0.026^{***} (0.020, 0.032)	$0.024^{***} $ $(0.015, 0.033)$	0.027^{***} (0.019, 0.035)
Experience squared	$-0.001^{***} \\ (-0.001, -0.001)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$-0.001^{***} \\ (-0.001, -0.0004)$	-0.001^{***} $(-0.001, -0.001)$	$\begin{array}{c} -0.001^{***} \\ (-0.001, -0.0005) \end{array}$	$-0.001^{***} \\ (-0.001, -0.0004)$
Female	-0.396^{***} $(-0.426, -0.366)$			-0.388^{***} $(-0.418, -0.358)$		
Observations R ² Adjusted R ² Residual Std. Error F Statistic	6,121 0.164 0.163 0.586 298.893***	2,807 0.109 0.108 0.570 113.720***	3,314 0.092 0.091 0.597 111.508***	6,121 0.159 0.159 0.587 231.922***	2,807 0.105 0.104 0.571 82.245***	07 3,314 05 0.087 04 0.086 71 0.598 5*** 78.510*** *p<0.1; **p<0.05; ***p<0.01
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